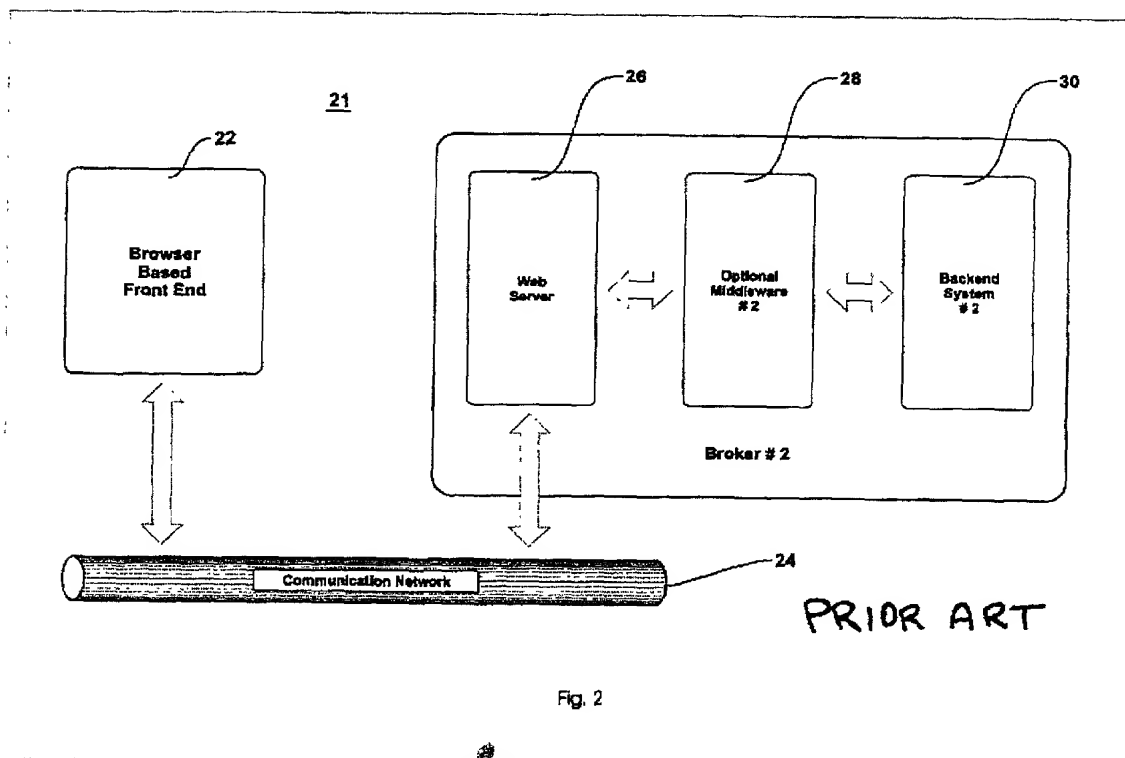
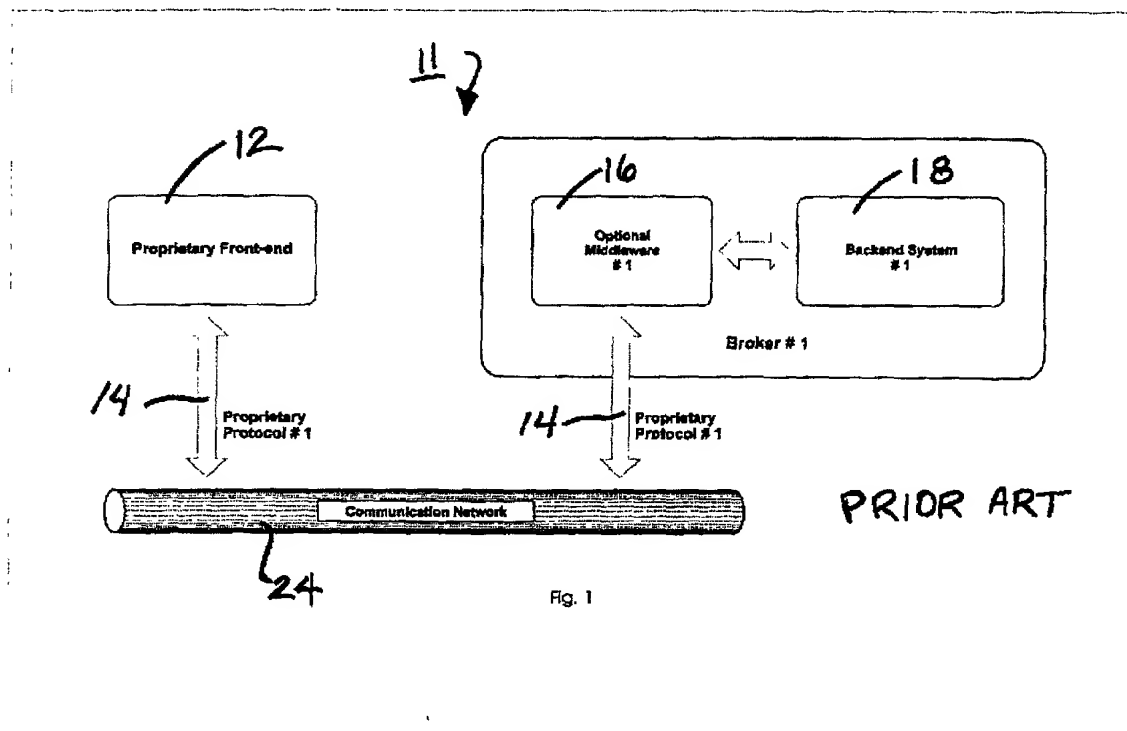


FIG. 1



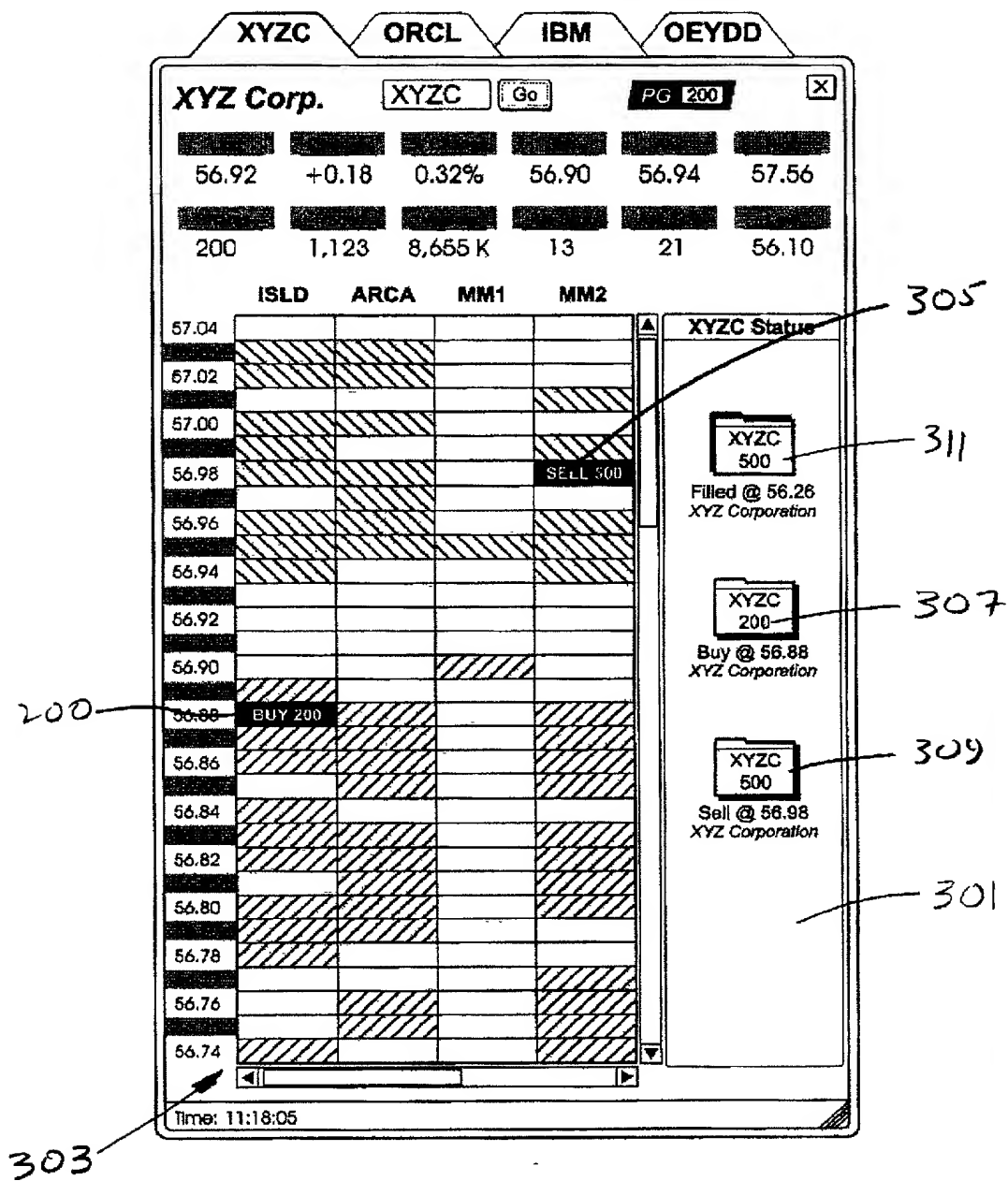


Fig. 3

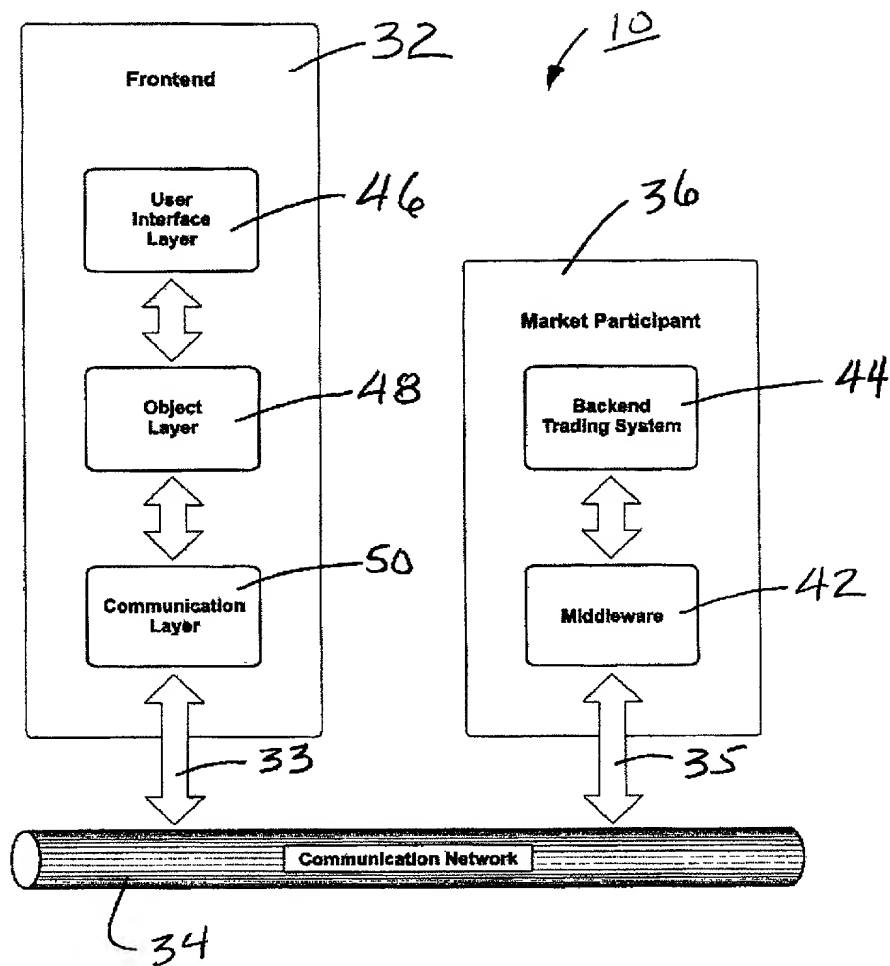


Fig. 4A

The diagram illustrates a layered architecture for a Main Program (32). The architecture is organized into three primary layers:

- User Interface Layer (46):** This layer contains three Container Objects (54, 58, 60) and Other Graphical Objects (72). Each Container Object contains a specific Graphical Object: Grid Graphical Object (52) in Container Object 54, Order Entry Graphical Object (56) in Container Object 58, and Accounts and Holdings Graphical Object (60) in Container Object 60.
- Object Layer (48):** This layer contains four objects: Quote Source Object (62), Order Entry Object (64), Account Holdings Object (66), and Other Objects (74). The Order Entry Object (64) is bidirectionally connected to the Quote Source Object (62) and the Account Holdings Object (66).
- Communication Layer (50):** This layer contains three objects: Winsock Communication Object (68), SOAP Communication Object (70), and Other Communication Objects (76). The Winsock Communication Object (68) is bidirectionally connected to the Quote Source Object (62). The SOAP Communication Object (70) is bidirectionally connected to the Order Entry Object (64) and the Account Holdings Object (66).

The Main Program (32) is connected to a Communication Network (34) via the Communication Layer. Arrows indicate the flow of data and communication between the objects across the layers.

Fig. 5

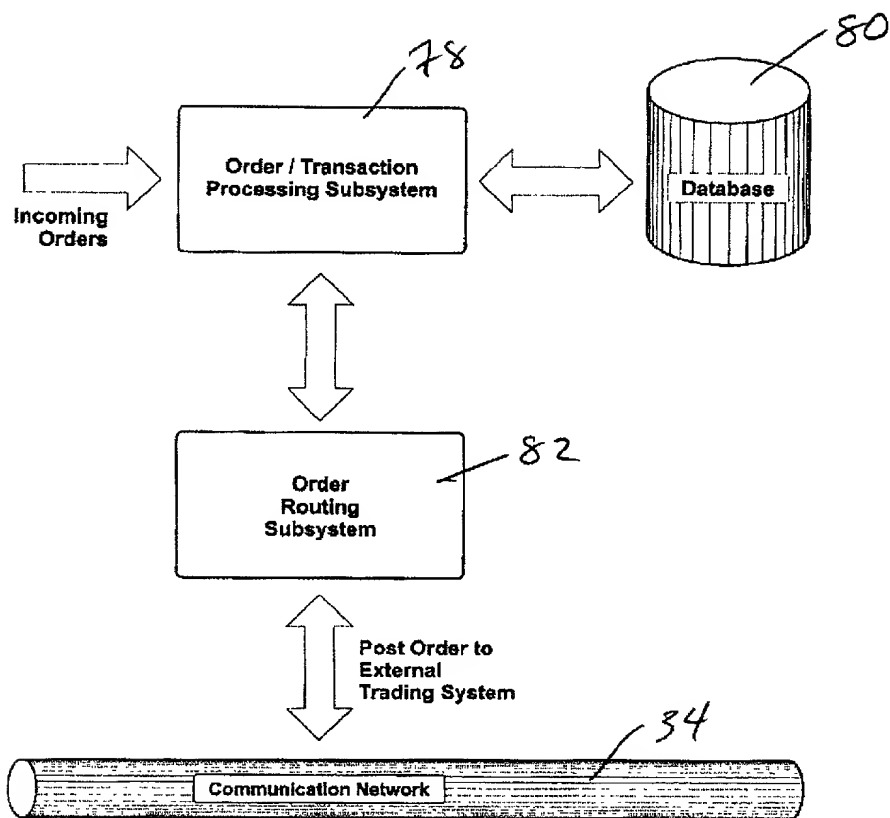


Fig. 6

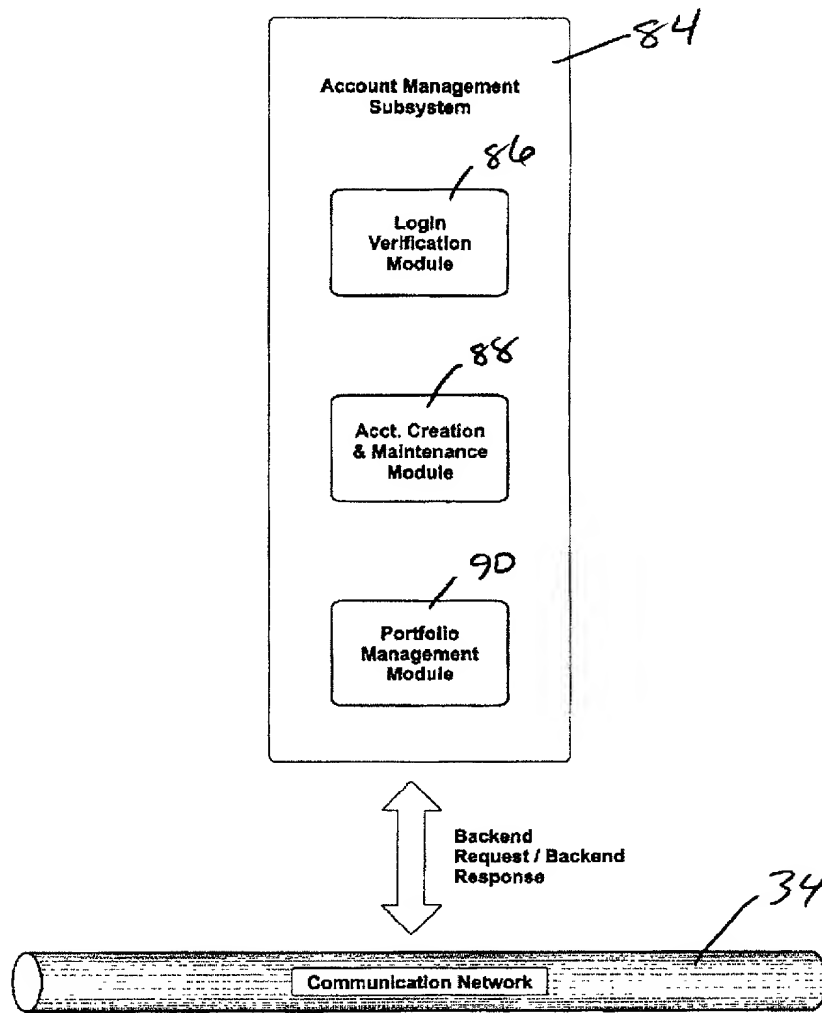


Fig. 7

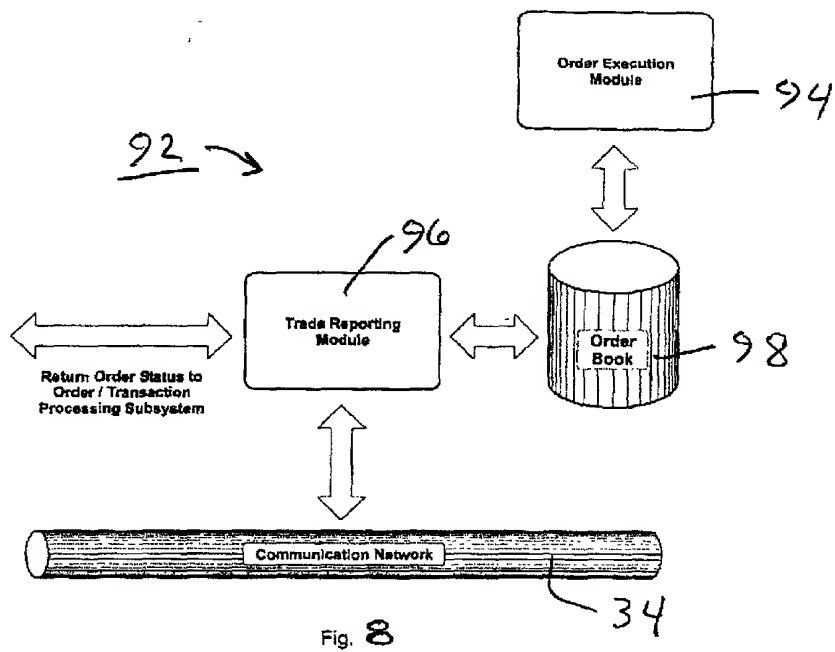


Fig. 8

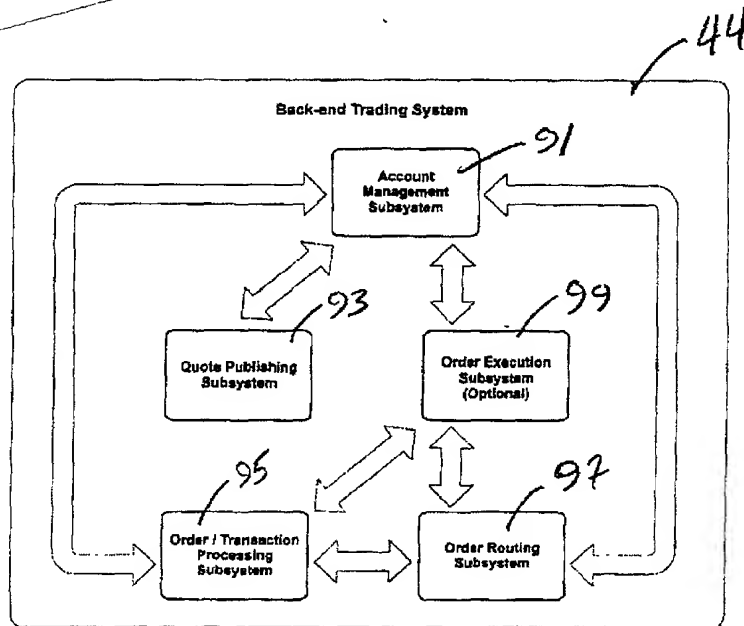


Fig. 9

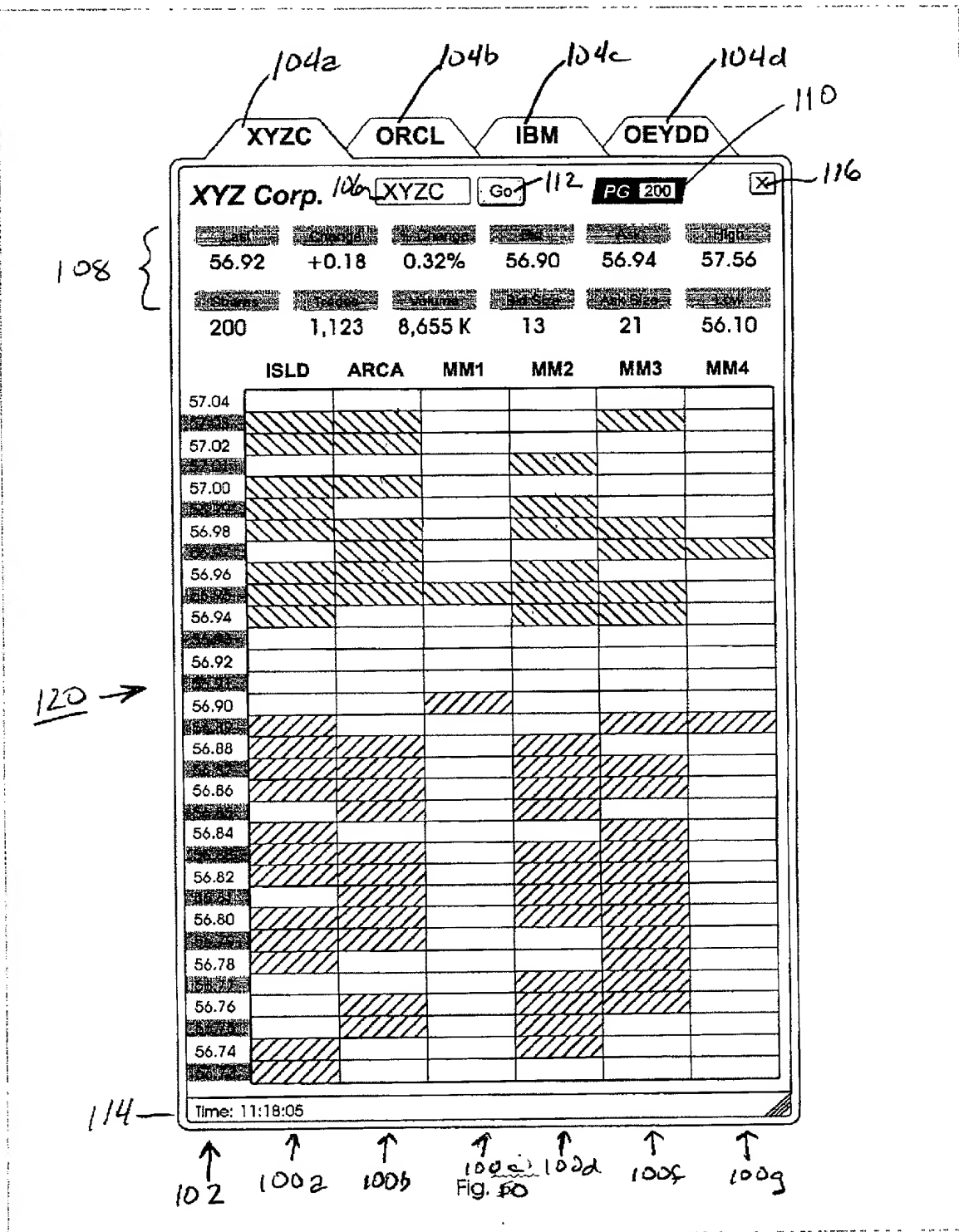
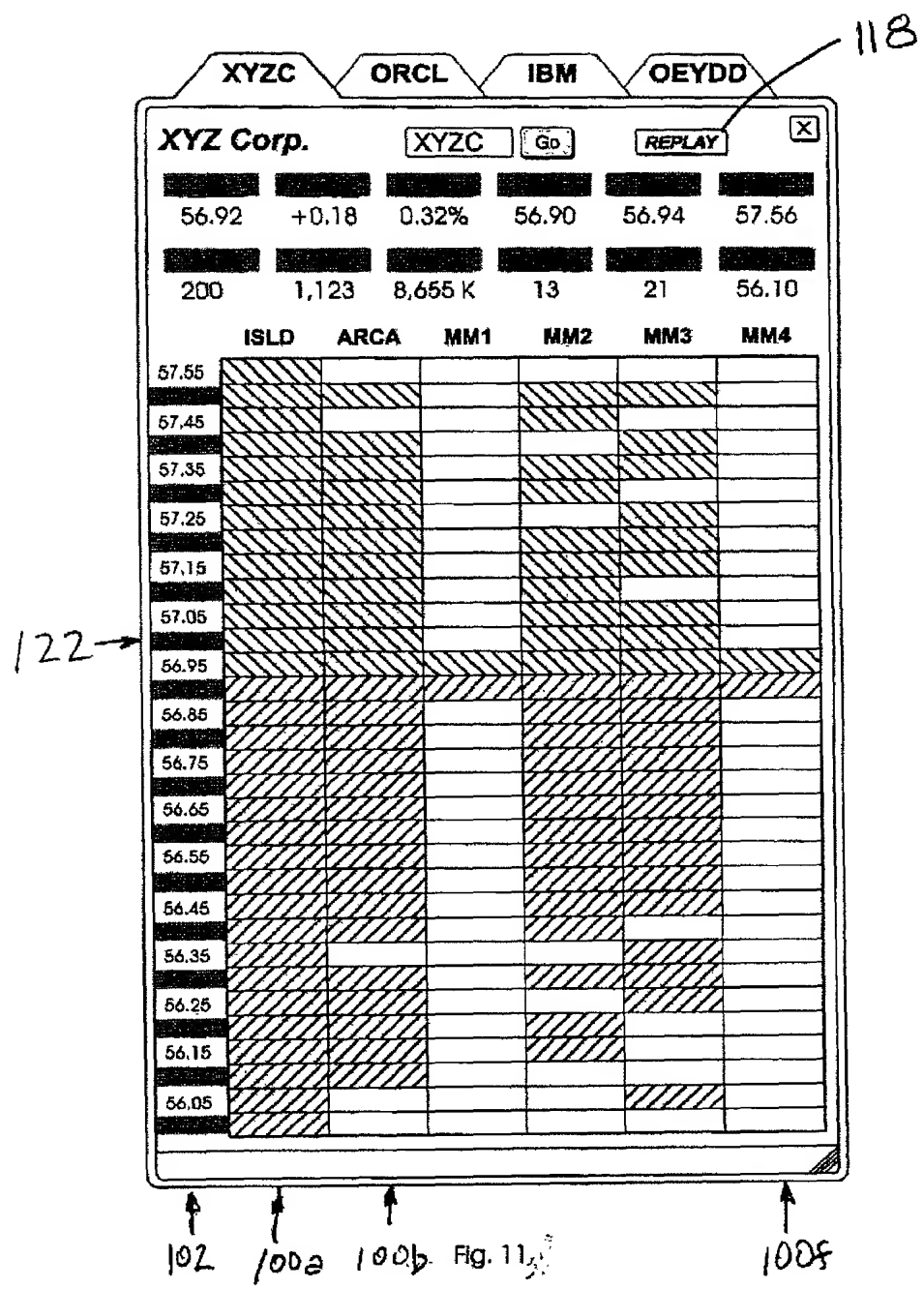
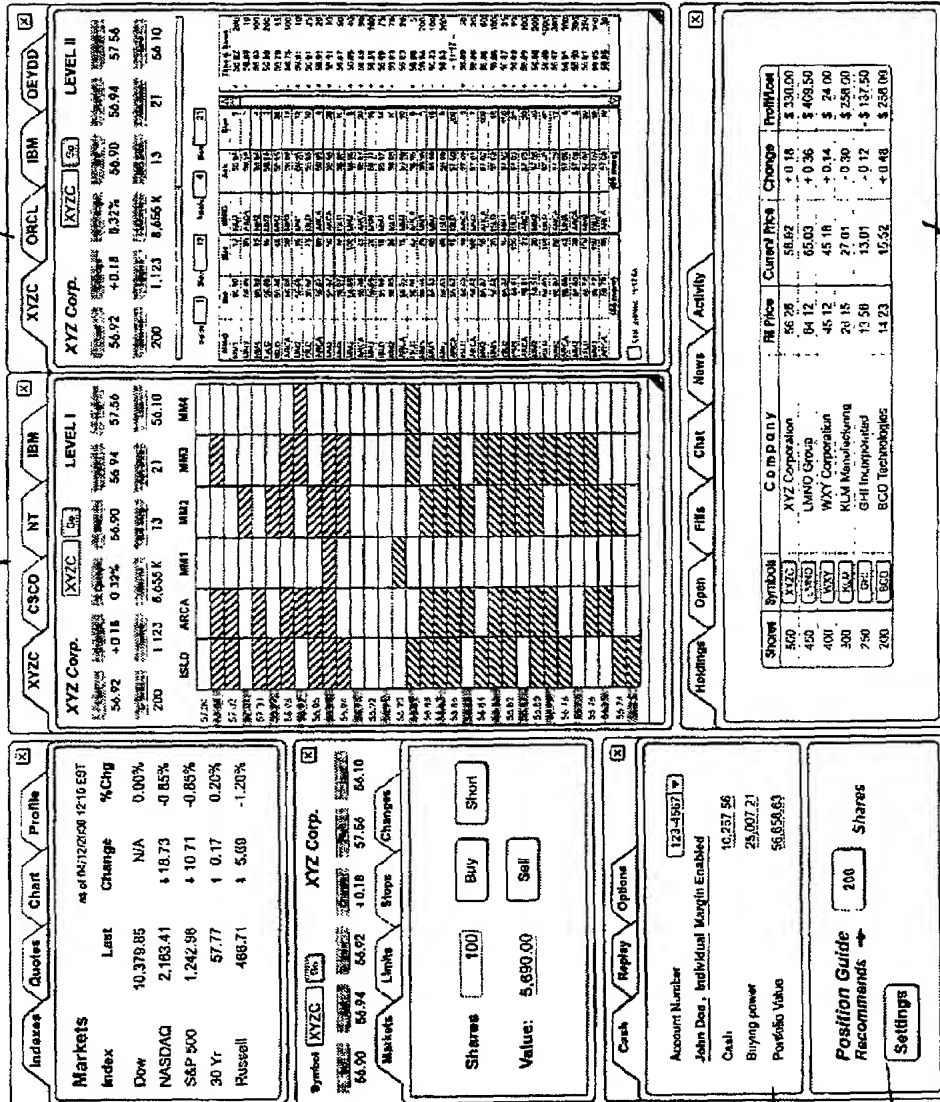


FIG. 11



120



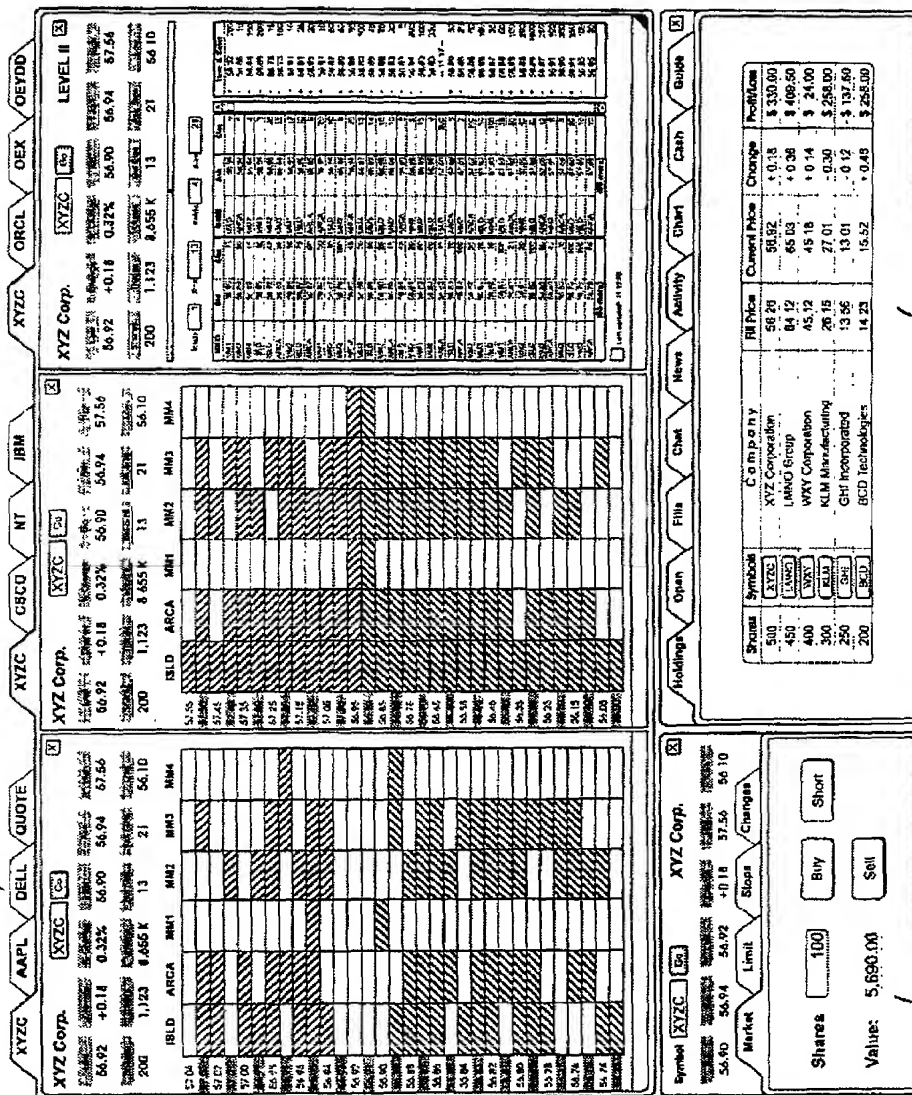
132

Fig. 12

120

122

124



132

128

Fig. 13

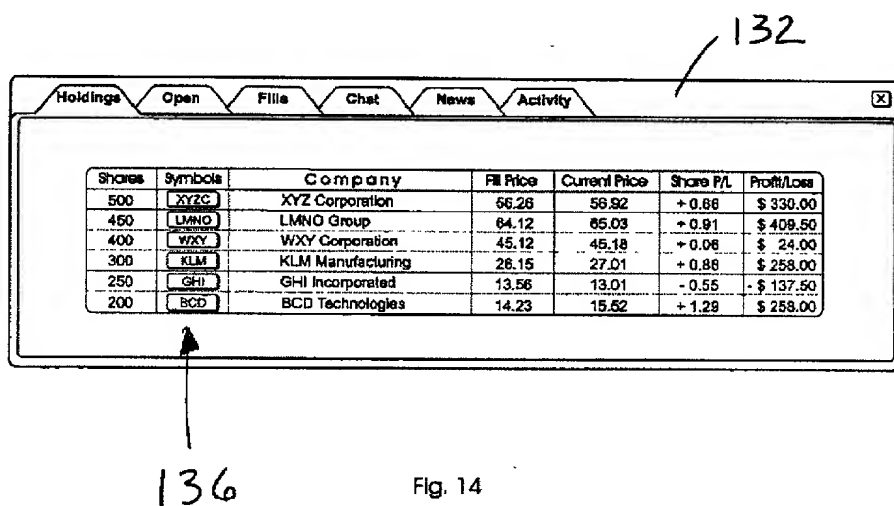


Fig. 14

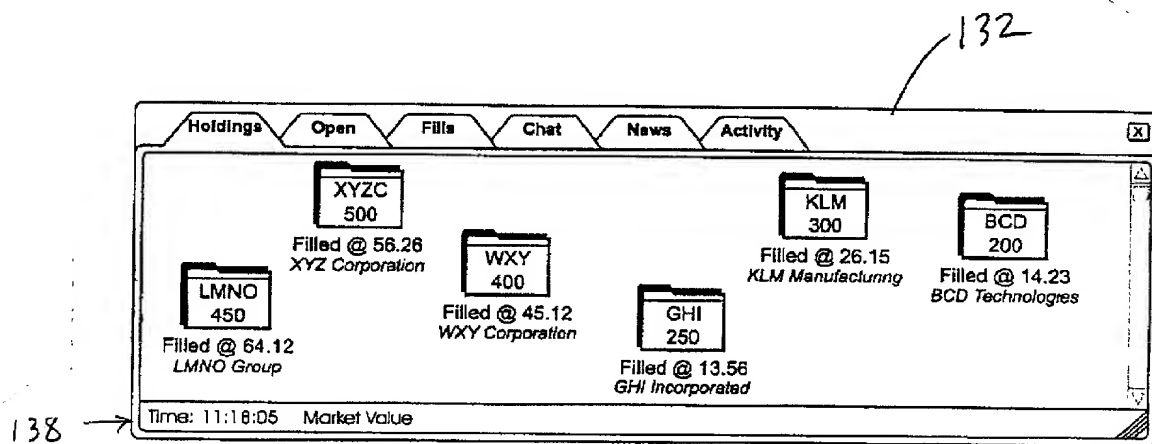


Fig. 15

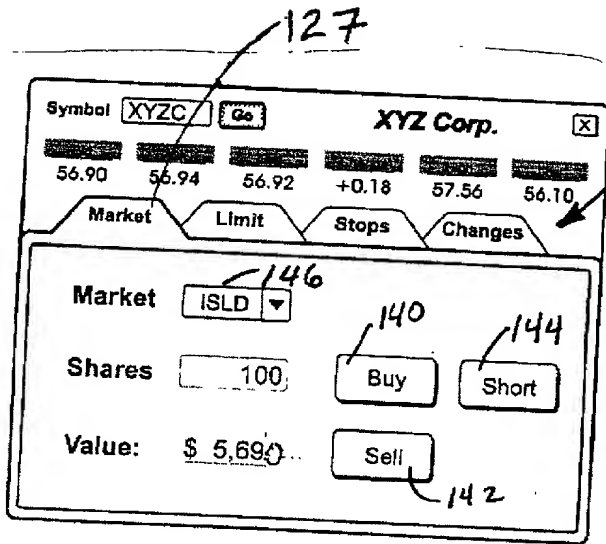


Fig. 16

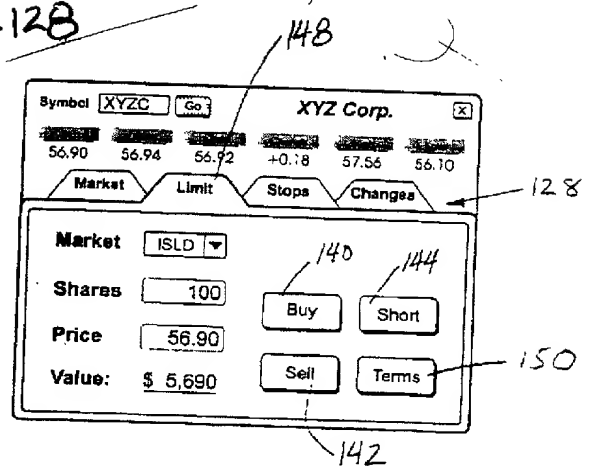


Fig. 17

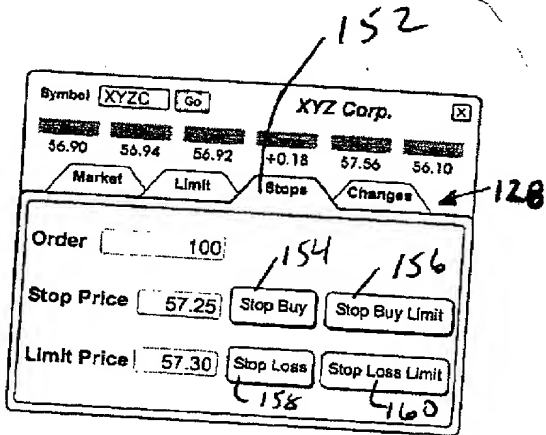


Fig. 18

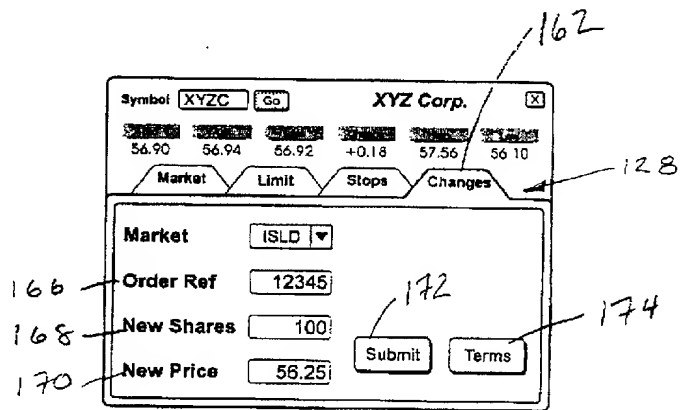


Fig. 19.1

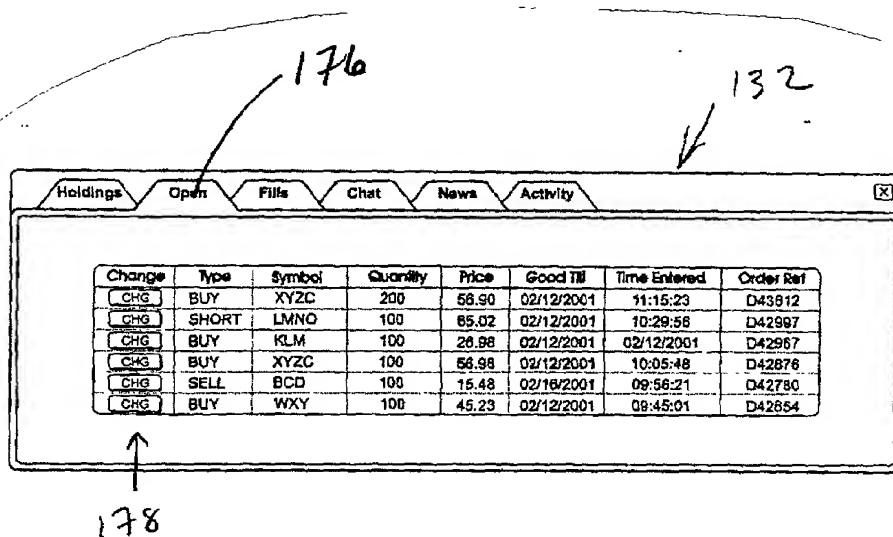


Fig. 20

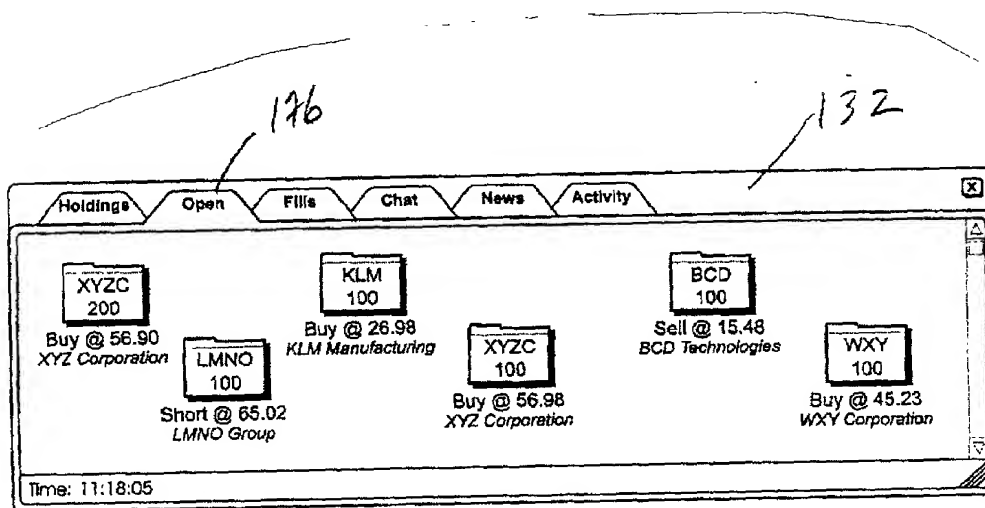


Fig. 21

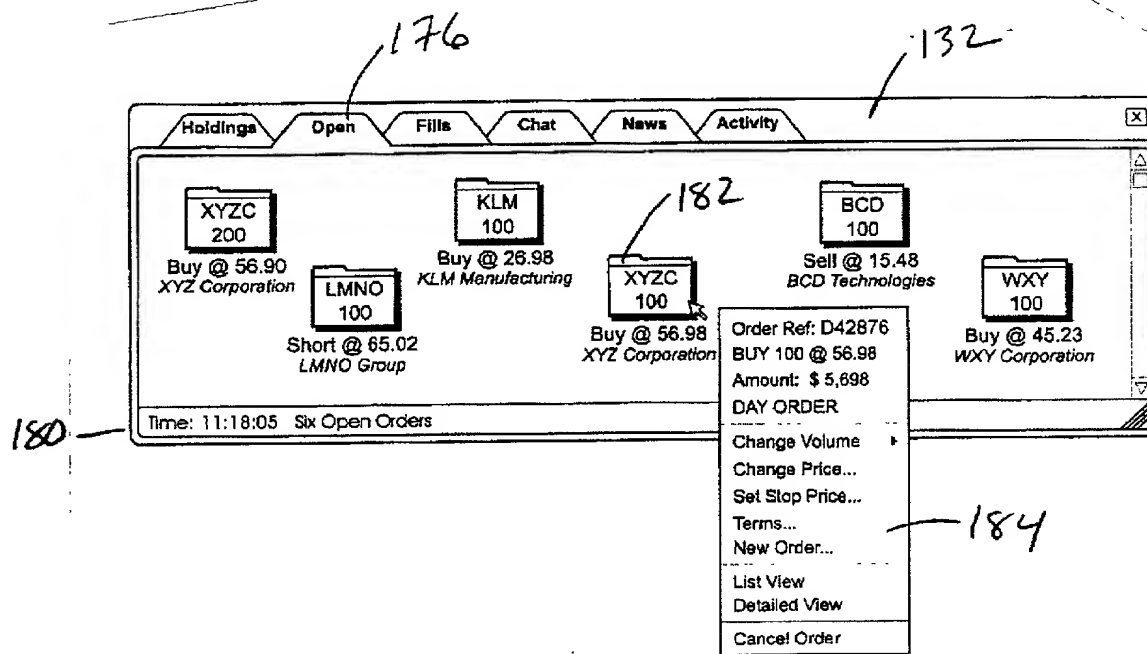


Fig. 22

186

132

Holdings Open Fills Chat News Activity

Filled Order	Action	Quantity	Symbol	Filled Price	Time
D42601	BOUGHT	500	XYZC	56.91	11:17:12
D42175	SOLD	450	LMNO	65.03	11:12:01
D41259	SOLD	400	WXY	45.18	10:56:45
D41103	SHORTED	300	KLM	27.01	10:43:21
D40263	BOUGHT	250	GHI	13.01	10:01:15
D40100	SOLD	200	BCD	15.52	09:32:31

Fig. 23

Option Symbol: OEYDD

Specification: OPENING BUY

Order Type: LIMIT

Contracts: 10

Price: 1.70

OEX April 620 Calls
S & P 100 Index

Submit

Fig. 24

Symbol: XYZC

Display Options

☒ Center Activity

☐ Show Bid/Ask

☐ Show Trades

From: Date: 02/12/2001 Time: 11:00:00 AM

To: Date: 02/12/2001 Time: 12:00:00 PM

Complete Animation In: Minutes

Replay

Cancel

Fig. 39

Symbol: PG 200

☒ Invest % of Portfolio

☐ Invest % of Buying Power

AND: AND NO MORE THAN

\$: In each Stock In each Option

Advanced Settings: Round Quantity UP

MAXIMUM POSITION IS 2,000 SHARES

Position Guide Recommends: 200 Shares

Fig. 40

No Special Terms

All or None

Minimum Quantity: 200

☒ Good Till Fill, 10 DAYS

☐ Other Terms

Cancel

Submit

Fig. 43

FIG. 25

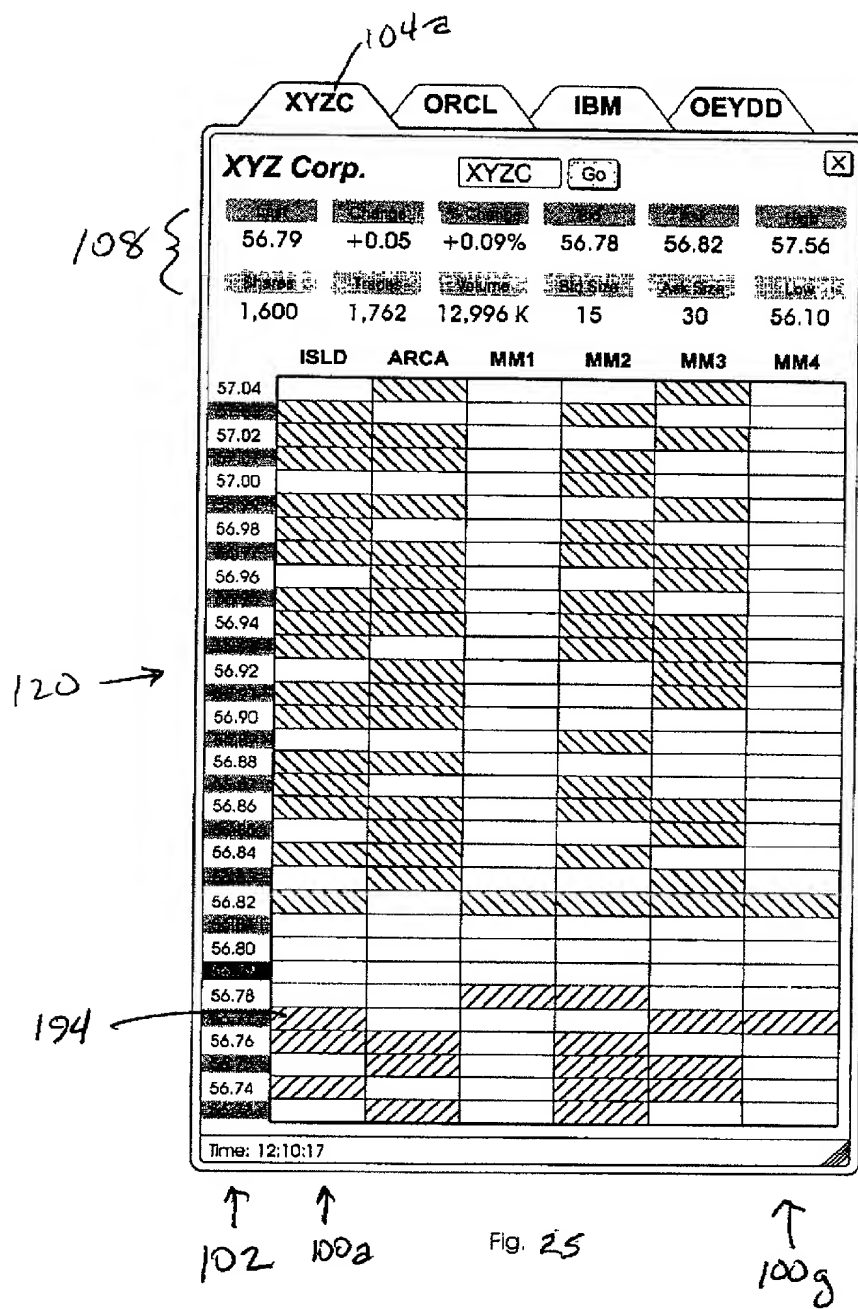
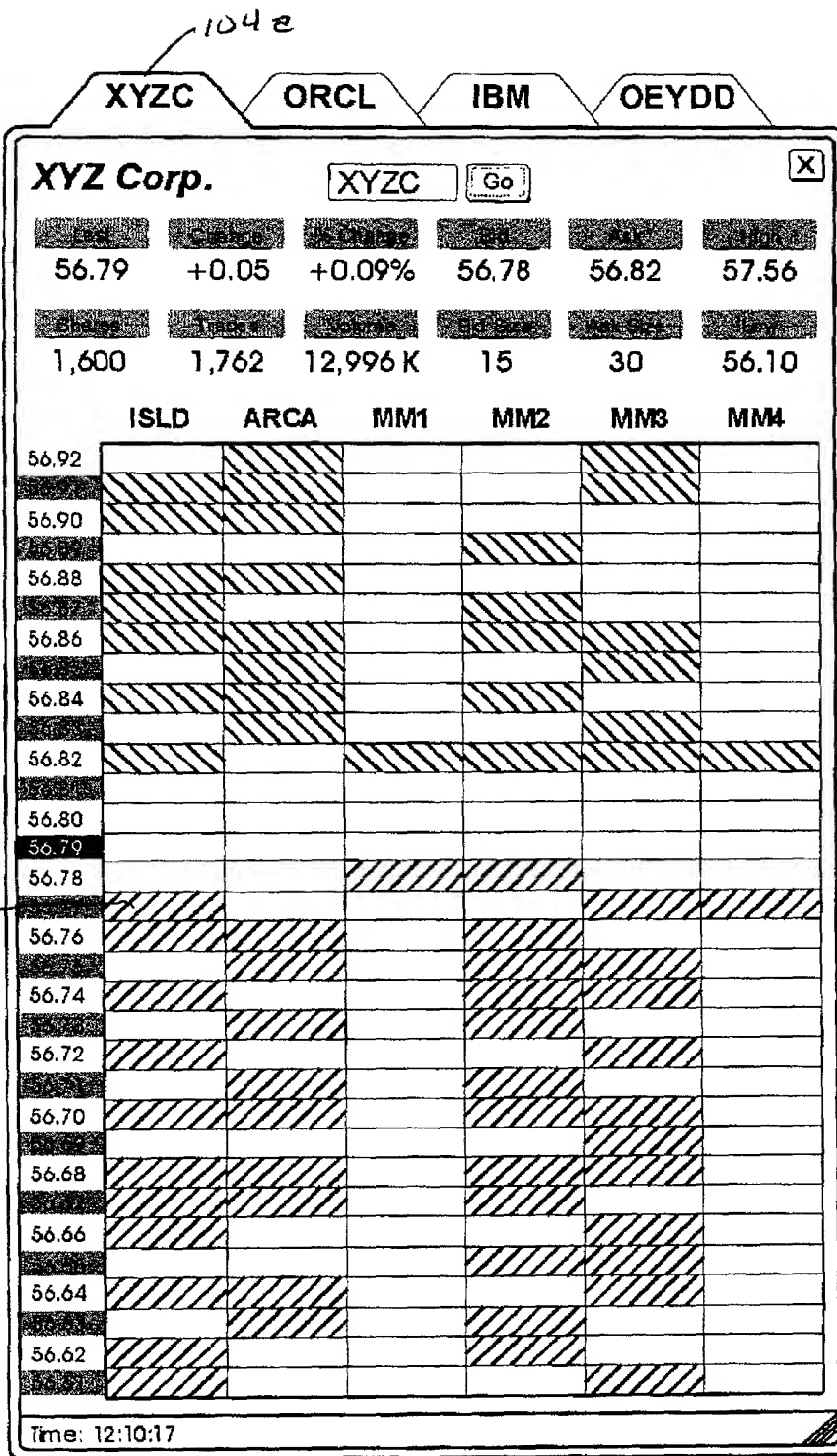


Fig. 25



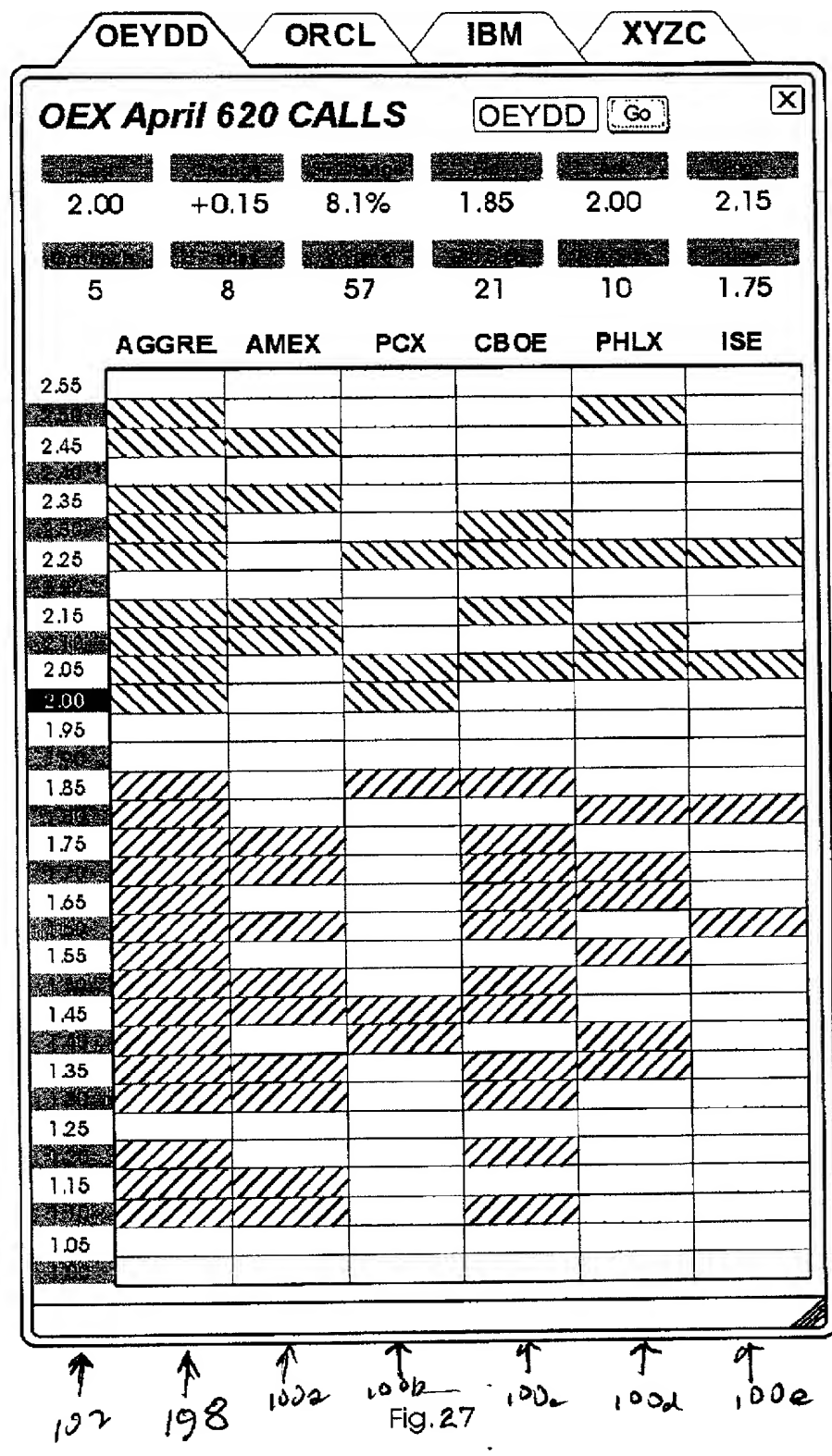
↑
102

↑
1002

Fig. 26

↑
100g

FOOD20" 4146860



← 196

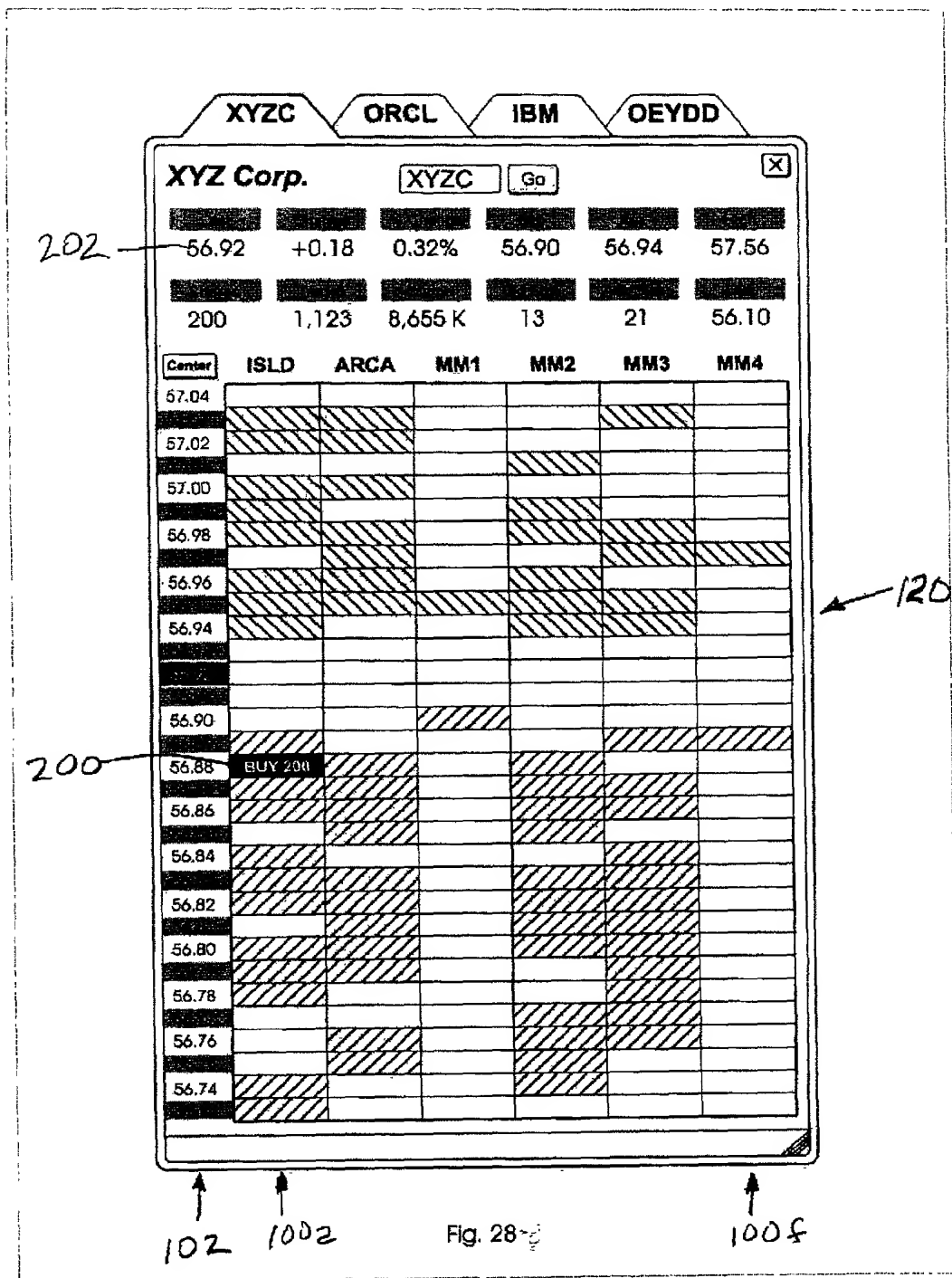


Fig. 28~c

FIG. 29

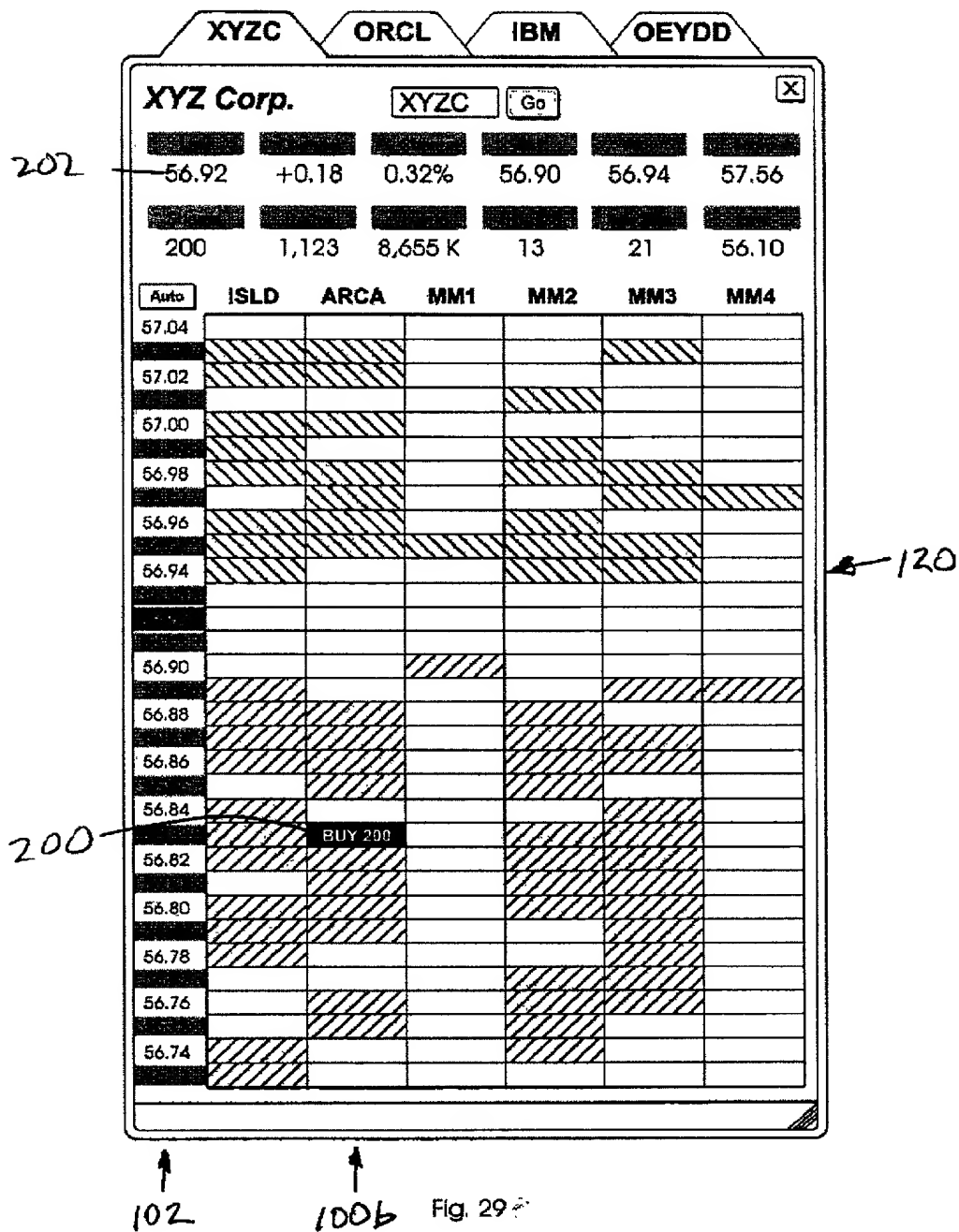


FIG. 30

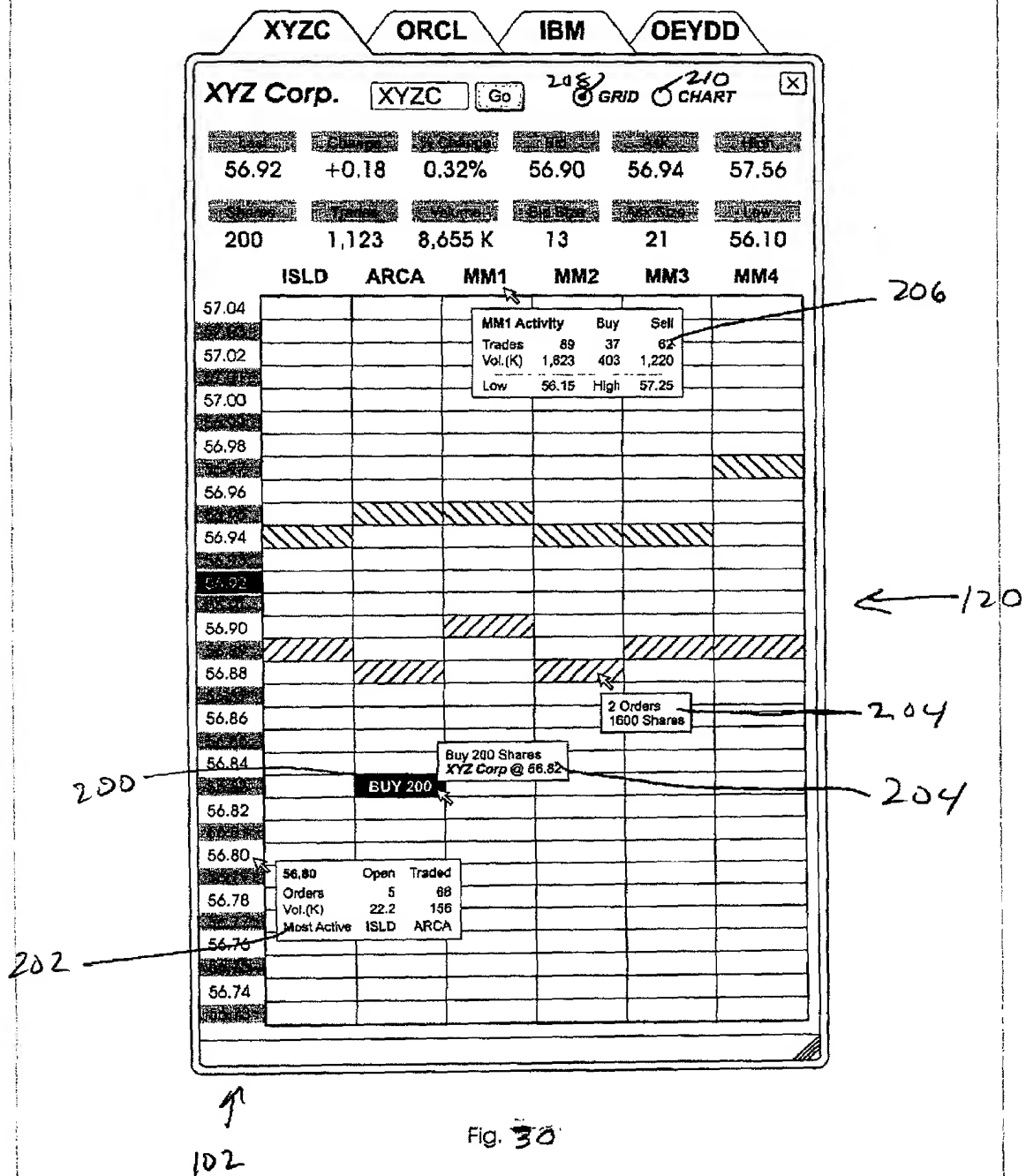
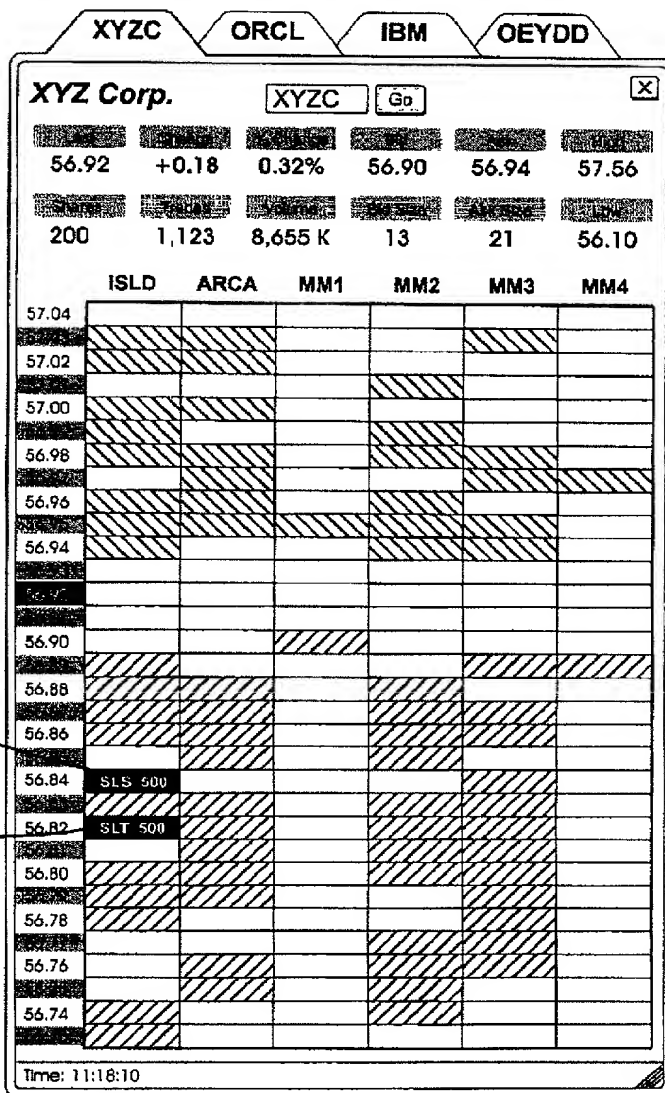


FIG. 31



120 →

210

208

↑
102

Fig. 31

XYZC ORCL IBM OEYDD

XYZ Corp. XYZC Go

56.82 +0.08 0.14% 56.82 56.84 57.56

1000 1,623 11,530 K 56 18 56.10

ISLD ARCA MM1 MM2 MM3 MM4

57.04

57.02

57.00

56.98

56.96

56.94

56.92

56.90

56.88

56.86

56.84 SLS 500

56.82 SLT ✓

56.80

56.78

56.76

56.74

Time: 11:55:33

120 →

210 →

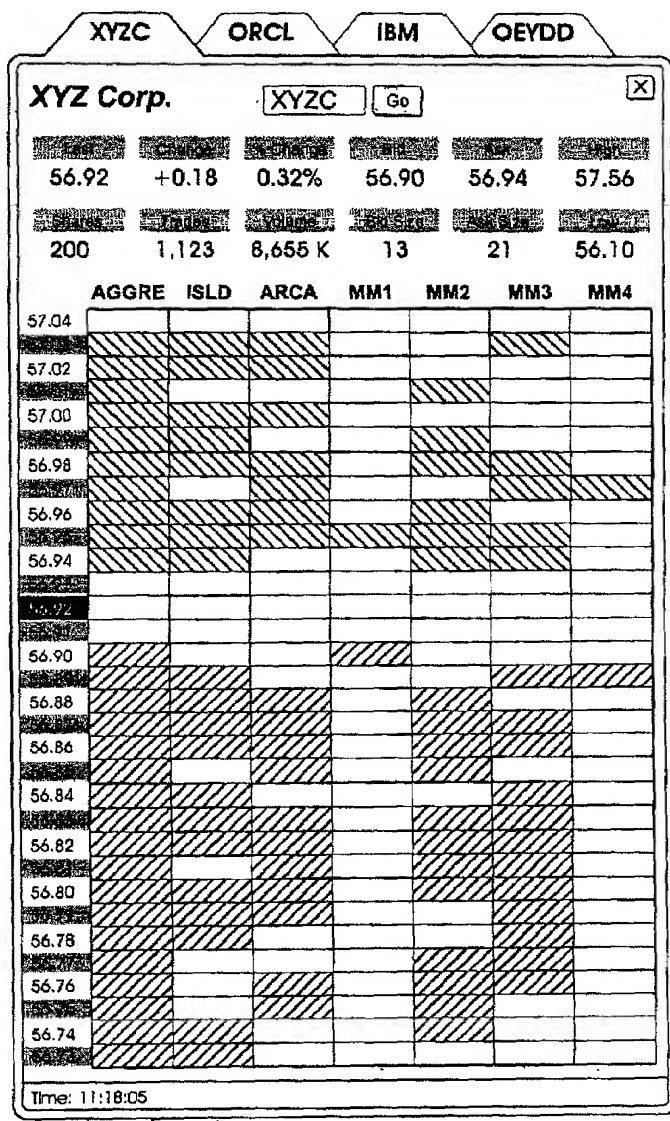
208 →

102 ↑

Fig. 32

Fig. 32

TABLE 20-10-1000

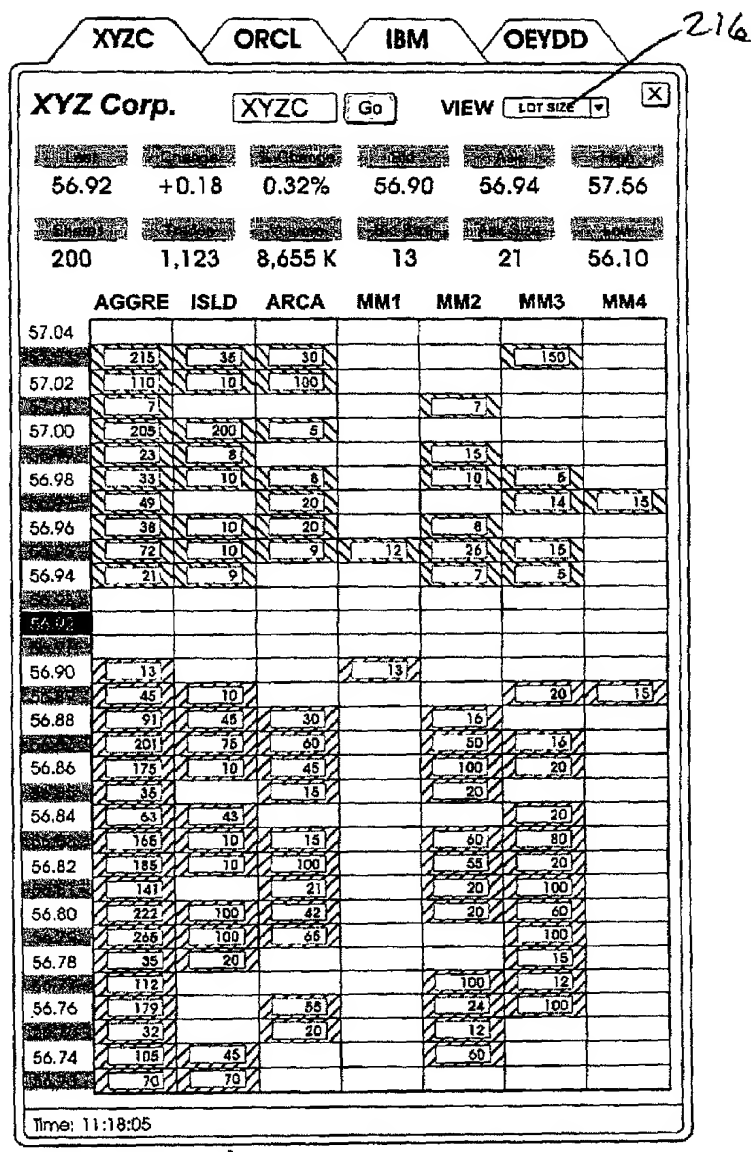


212 →

↑ 102 ↑ 214 ↑ 1002 ↑ 100F

Fig. 33

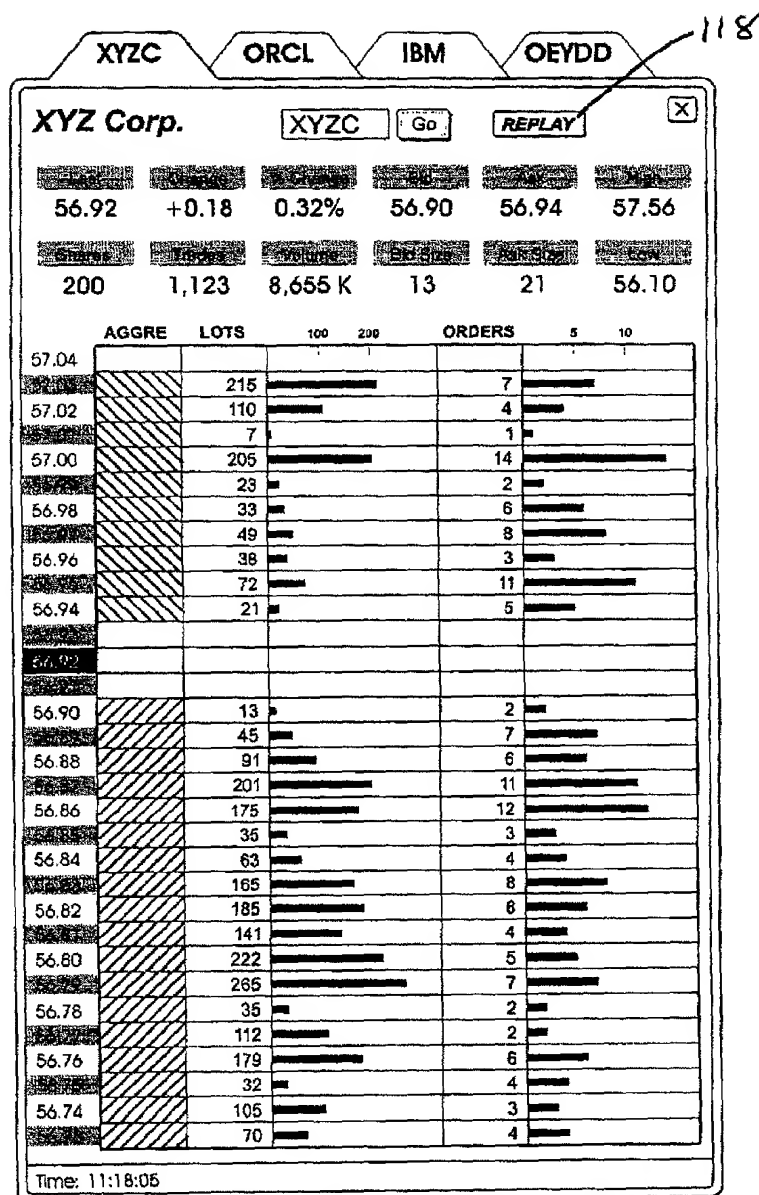
100020 2546000



212 →

↑ ↑ ↑ ↑
102 214 1002 Fig. 34 1008

220 →



↑ ↑ ↑ ↑ ↑ ↑
102 214 222 224 224 228

FIG. 35

000044 0000

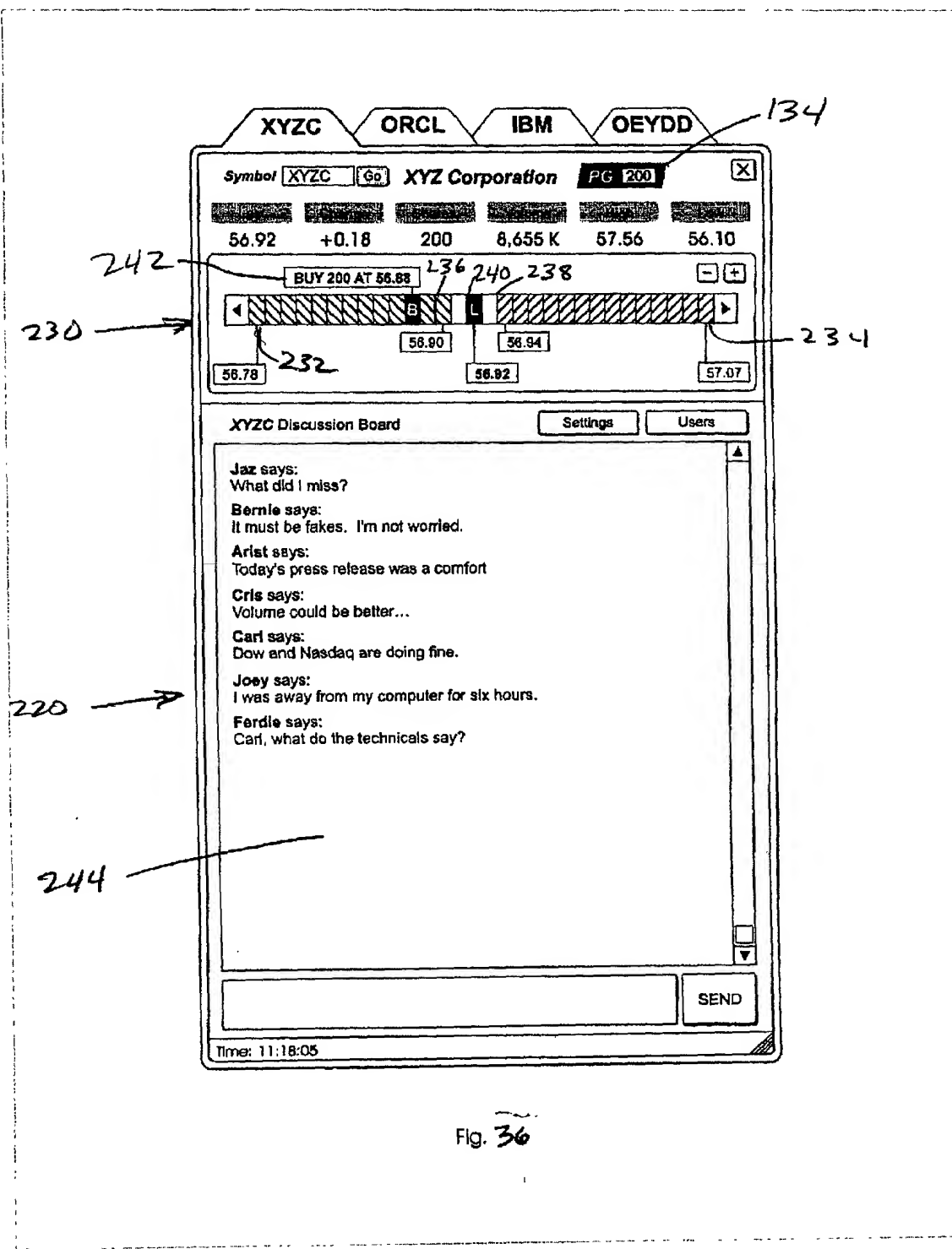
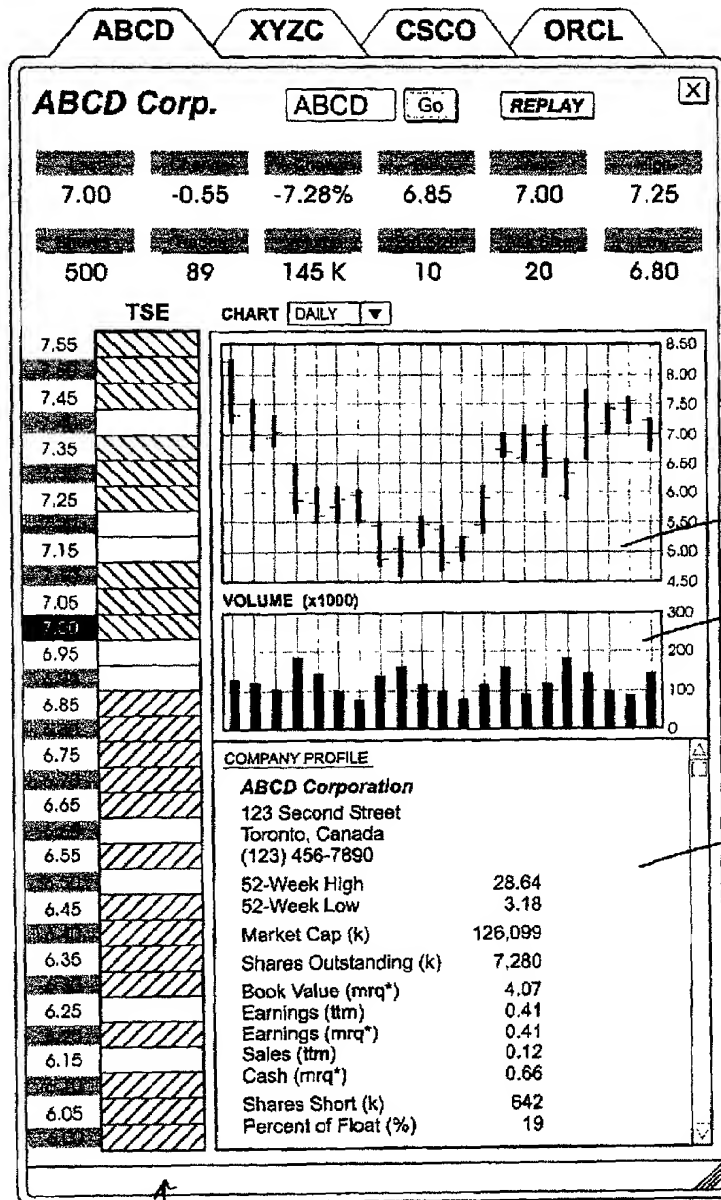


Fig. 36

FIG. 37



102

248

Fig. 37

TABLE 200

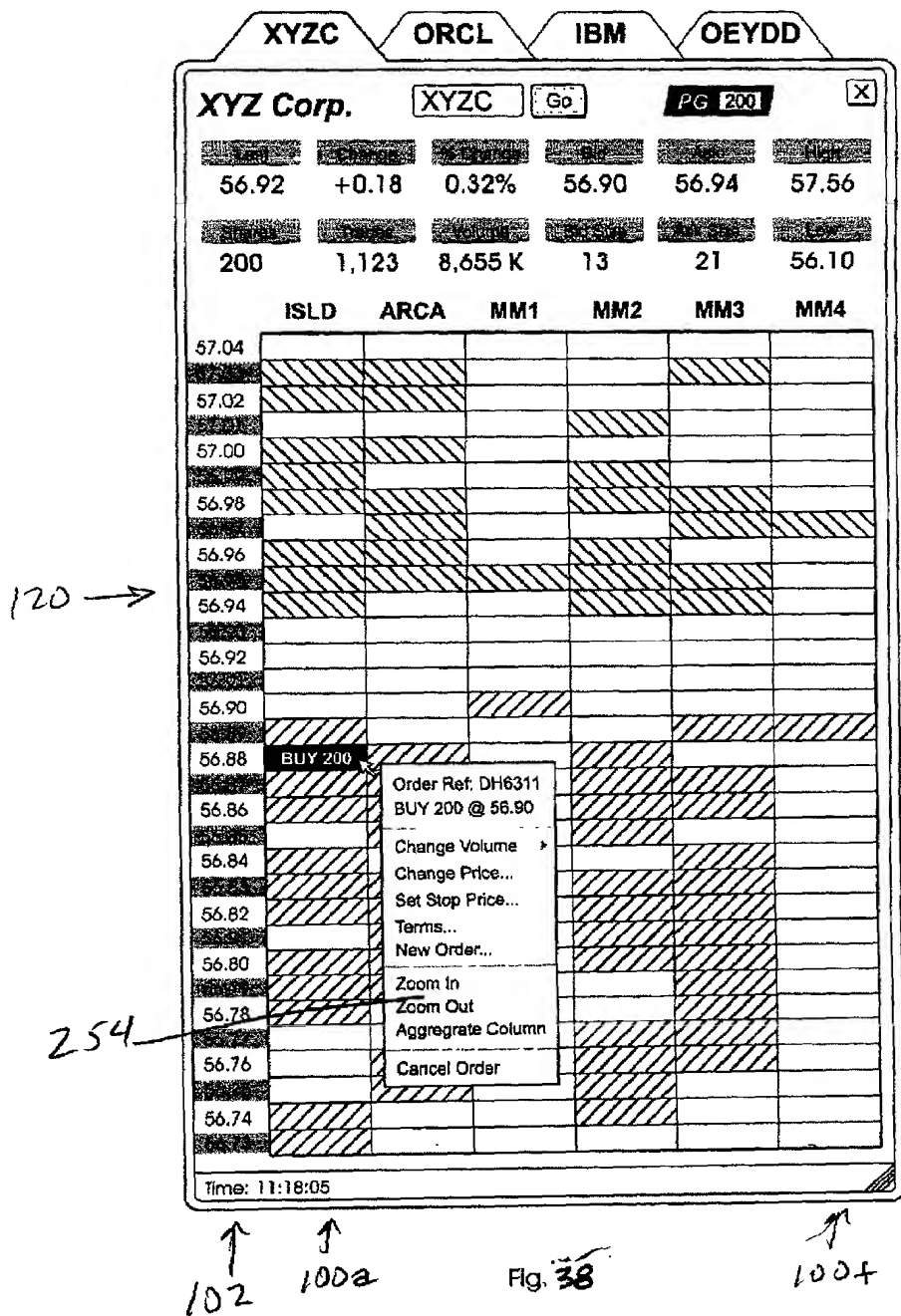


Fig. 38

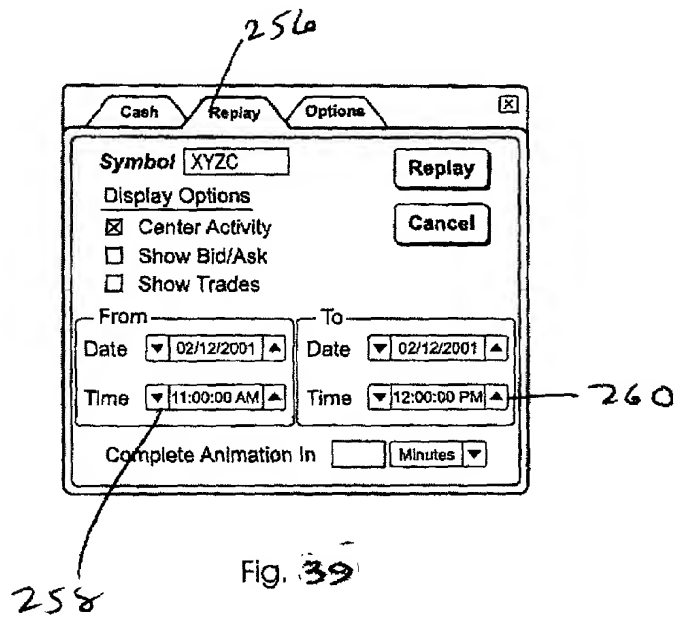


Fig. 39

Position Guide Settings

Symbol

☒ Invest % of Portfolio
☐ Invest % of Buying Power

AND NO MORE THAN

\$ In each Stock
\$ In each Option

Round Quantity

MAXIMUM POSITION IS 2,000 SHARES

Position Guide Recommends Shares

134

264

262

Fig. 4B

The image displays three sequential screenshots of a stock market trading interface, likely from a terminal or a specialized software application. Each screenshot shows a different stock and its corresponding order entry and execution details.

Screenshot 1: XYZC

- Symbol:** XYZC
- Go:** XYZ Corporation
- PG:** 200
- Order Entry:** 56.92, +0.18, 200, 8,655 K, 57.56, 56.10
- Order Execution:** SELL 500 AT 57.50, .01
- Order Entry:** BUY 200 AT 56.88, .01
- Order Execution:** BUY 200 AT 56.88, .01

Screenshot 2: ZXY April 50 Calls

- Symbol:** ZXY
- Go:** ZXY April 50 Calls
- PG:** 10
- Order Entry:** 7.20, +0.20, 5, 72, 7.80, 6.50
- Order Execution:** SELL 7 AT 8.10, .10
- Order Entry:** BUY 7 AT 7.20, .10
- Order Execution:** BUY 7 AT 7.20, .10

Screenshot 3: ABCD Corp. (TSE)

- Symbol:** ABCD
- Go:** ABCD Corp. (TSE)
- PG:** 500
- Order Entry:** 7.00, -0.55, 500, 145 K, 7.25, 6.80
- Order Execution:** SELL 500 AT 7.25, .05
- Order Entry:** BUY 500 AT 6.85, .05
- Order Execution:** BUY 500 AT 6.85, .05

Fig. 44

XYZC

ORCL

IBM

OEYDD

XYZ Corp.

XYZC

Go

LEVEL II

X

56.92 +0.18 0.32% 56.90 56.94 57.56

200 1,123 8,655 K 13 21 56.10

Inside 1 Size 13 Inside 4 Size 21

MMID	Bid	Size	MMID	Ask	Size	Time & Sales
MM1	56.90	13	ISLD	56.94	9	+ 56.92 200
MM3	56.89	20	ARCA	56.94	5	- 56.88 10
MM4	56.89	15	MM2	56.94	4	- 56.88 100
ISLD	56.89	10	MM3	56.94	3	- 56.88 200
ISLD	56.88	45	MM2	56.95	26	- 56.75 15
ARCA	56.88	30	MM3	56.95	15	- 56.75 100
MM2	56.88	16	MM1	56.95	12	+ 56.91 10
ISLD	56.87	75	ISLD	56.95	10	+ 56.91 25
ARCA	56.87	60	ARCA	56.95	9	+ 56.91 20
MM2	56.87	50	ARCA	56.96	20	+ 56.91 10
MM3	56.87	18	ISLD	56.96	10	- 56.87 50
MM2	56.86	100	MM2	56.96	8	+ 56.89 40
ARCA	56.86	45	ARCA	56.97	20	+ 56.89 50
MM3	56.86	20	MM4	56.97	15	+ 56.89 100
ISLD	56.86	10	MM3	56.97	14	+ 56.89 75
MM2	56.85	20	ISLD	56.98	10	+ 56.89 70
ARCA	56.85	15	MM2	56.98	10	- 56.83 20
ISLD	56.84	43	ARCA	56.98	8	+ 56.90 5
MM3	56.84	20	MM3	56.98	5	- 56.84 200
MM3	56.83	80	MM2	56.99	16	- 56.83 100
MM2	56.83	60	ISLD	56.99	8	- 56.83 350
ARCA	56.83	16	ISLD	67.00	200	- 11:17 -
ISLD	56.83	10	ARCA	67.00	5	+ 56.89 30
ARCA	56.82	100	MM2	67.01	7	- 56.86 20
MM2	56.82	55	ARCA	67.02	100	- 56.88 60
MM3	56.82	20	ISLD	67.02	10	- 56.86 100
ISLD	56.82	10	MM3	67.03	150	+ 56.87 35
MM3	56.81	100	ISLD	67.03	35	+ 56.89 50
ARCA	56.81	21	ARCA	67.03	30	+ 56.89 100
MM2	56.81	20	MM2	67.05	40	+ 56.88 200
ISLD	56.80	100	ISLD	67.05	40	+ 56.88 1000
MM3	56.80	60	ARCA	67.05	12	- 56.87 250
ARCA	56.80	42	MM3	67.05	8	+ 56.91 100
MM2	56.80	20	ARCA	67.06	5	- 56.90 300
ISLD	56.79	100	MM2	67.09	20	+ 56.91 350
MM3	56.79	100	ISLD	67.09	10	- 56.85 100
ARCA	56.79	65	ARCA	67.09	10	- 56.85 30

(85 more)

(86 more)

Last updated: 11:17:56

290

124

Fig. 42

Special Terms Settings

☐ No Special Terms

☐ All or None

☒ Minimum Quantity

☒ Good Till Fill, DAYS

☐ Other Terms

300

Fig. 43

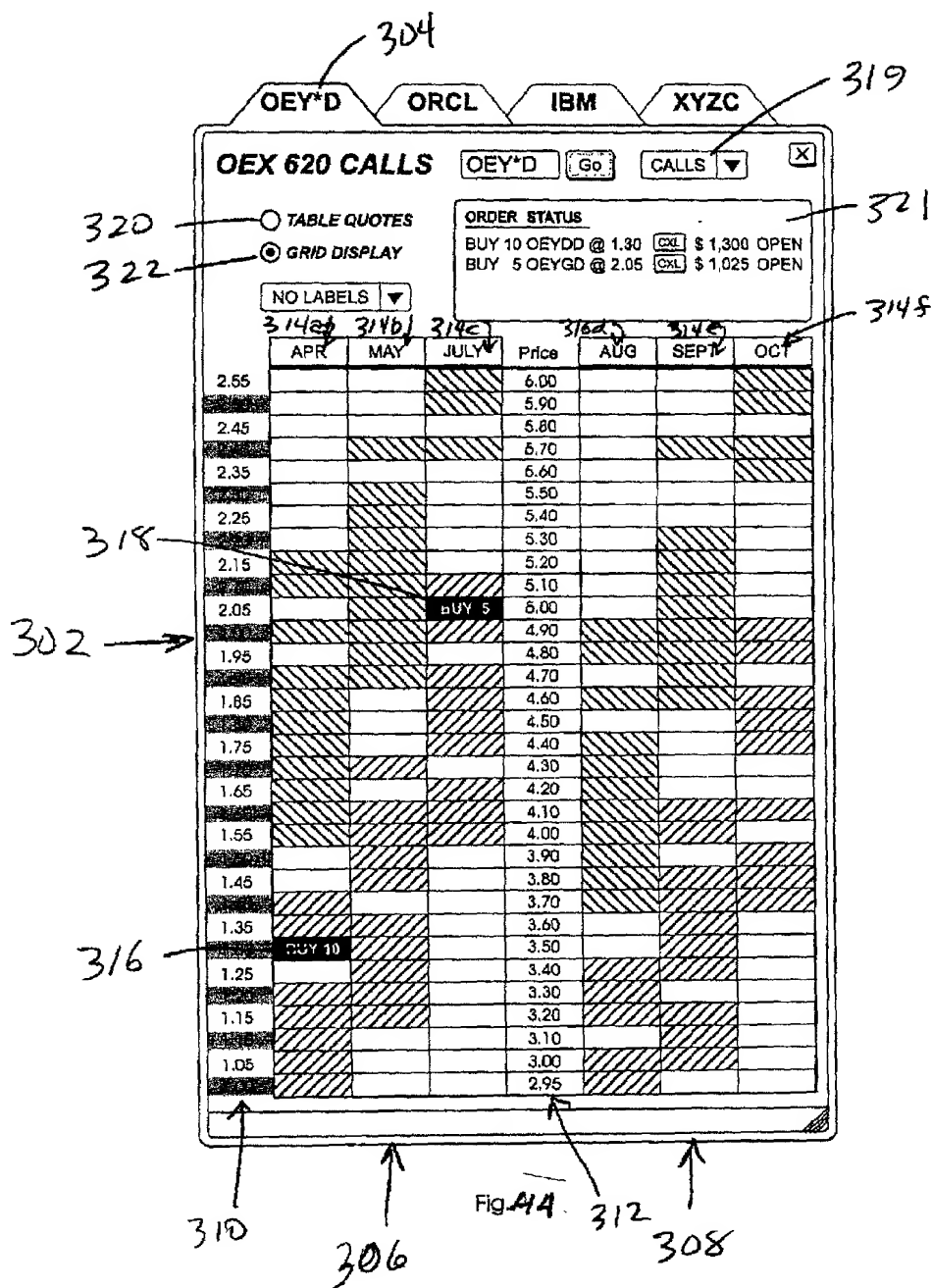


FIG. 45

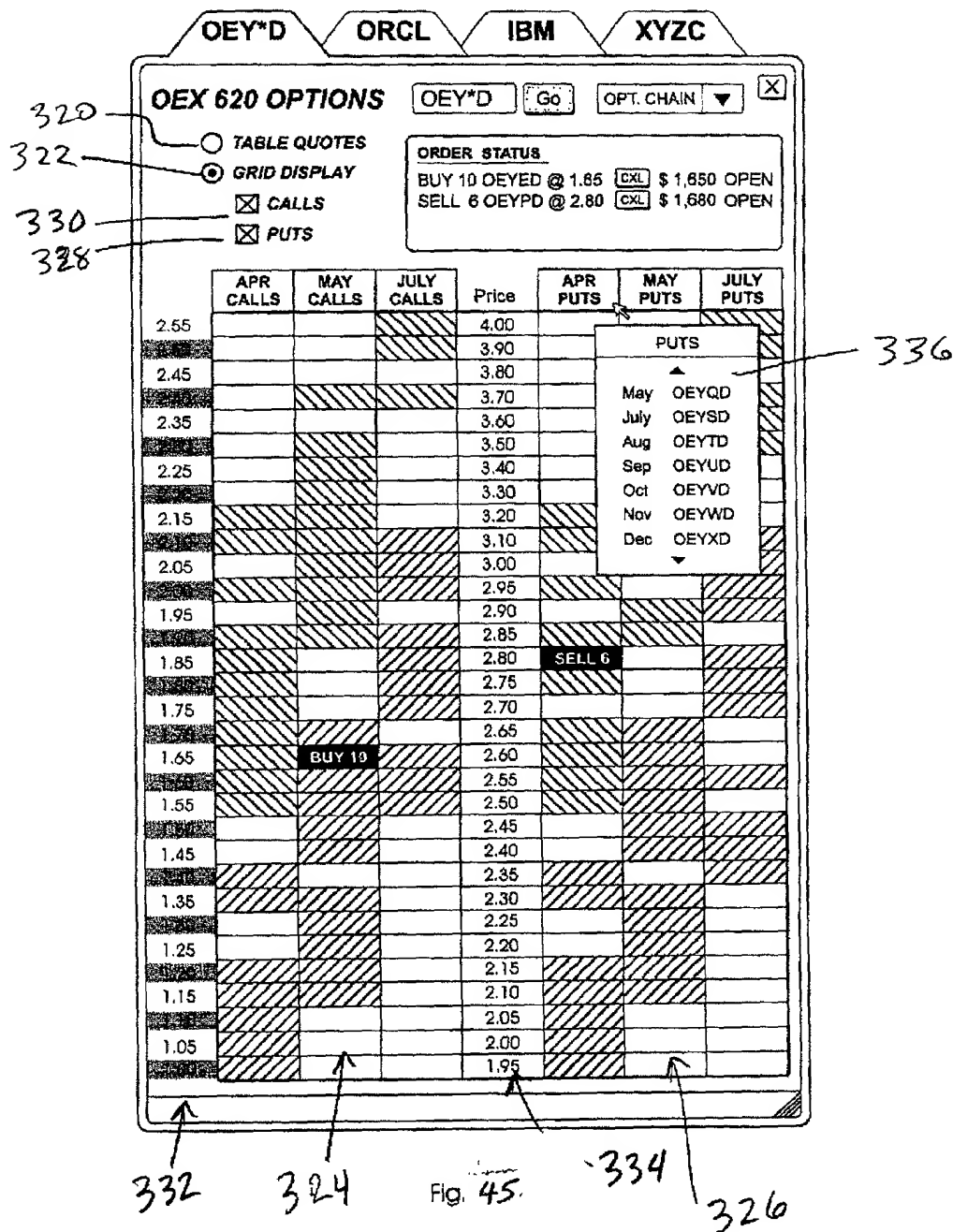


Fig. 45

OEX 620 OPTIONS

OEY** ORCL IBM XYZC

OEY** Go APRIL X

ORDER STATUS

BUY 10 OEYDC @ 1.55 CXL \$ 1,550 OPEN
BUY 5 OEYPQ @ 3.30 CXL \$ 1,650 OPEN

320 ○ TABLE QUOTES
322 ● GRID DISPLAY
330 ☑ CALLS
328 ☑ PUTS

344a 344b 344c 344d 344e 344f

	610 CALLS	615 CALLS	620 CALLS	Price	580 PUTS	585 PUTS	590 PUTS
2.55				6.00			
				5.90			
2.45				5.80			
				5.70			
2.35				5.60			
				5.50			
2.25				5.40			
				5.30			
2.15				5.20			
				5.10			
2.05				5.00			
				4.90			
1.95				4.80			
				4.70			
1.85				4.60			
				4.50			
1.75				4.40			
				4.30			
1.65				4.20			
				4.10			
1.55				4.00			
				3.90			
1.45				3.80			
				3.70			
1.35				3.60			
				3.50			
1.25				3.40			
				3.30			
1.15				3.20			
				3.10			
1.05				3.00			
				2.95			

360

350

352

354

342

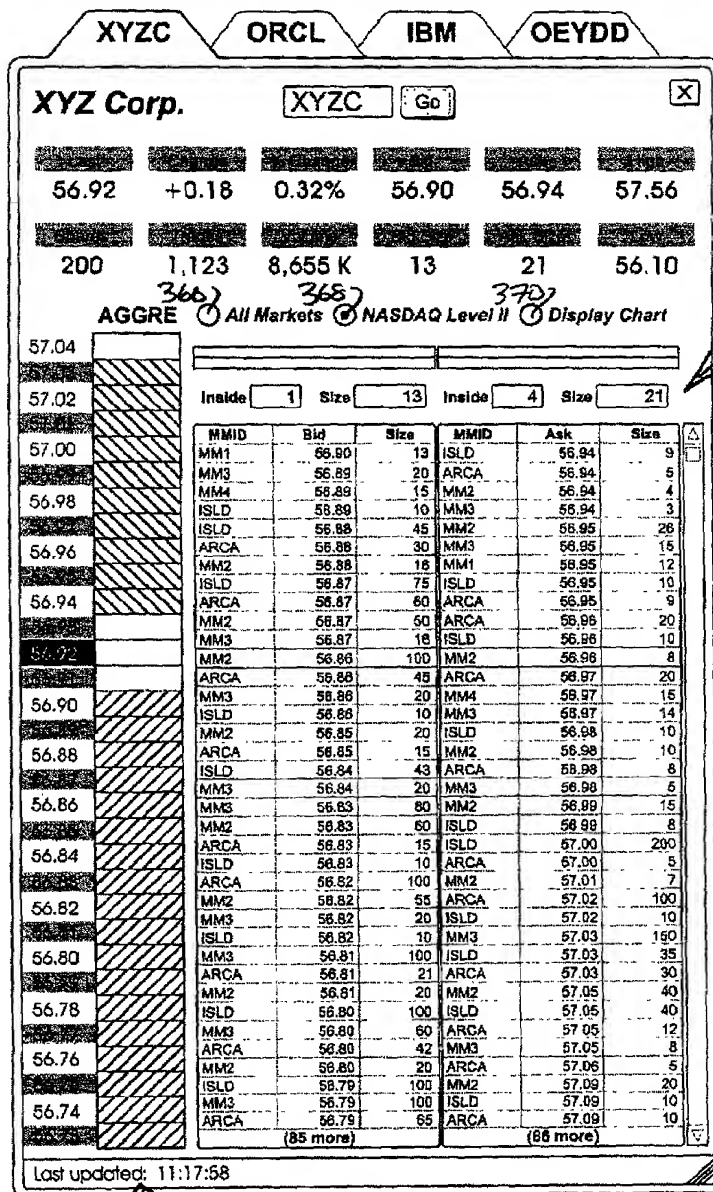
Fig. 46

356

340

Fig. 46

FIG. 47

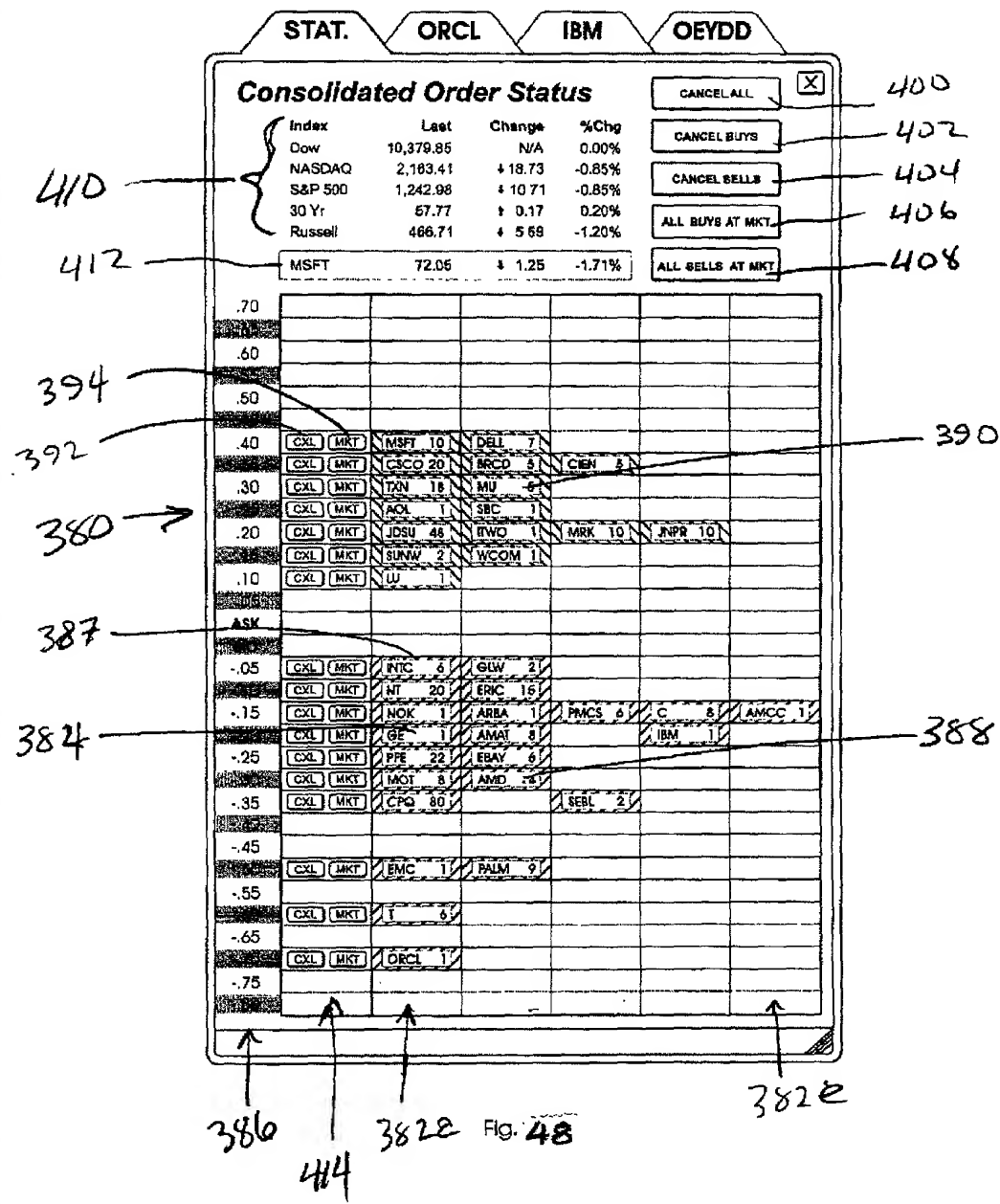


362

Fig. 47

364

FIG. 48



STAT. ORCL IBM OEYDD

Consolidated Order Status

Dow 10,379.85 N/A 0.00%
NASDAQ 2,183.41 +18.73 -0.85%

MICROSOFT 72.05 + 1.25 -1.71%
 BID : 72.00 ASK : 72.10 Trades : 4,823
 HI : 72.85 LOW : 71.60 Vol. (K) : 14,855

MSFT Go PG 200

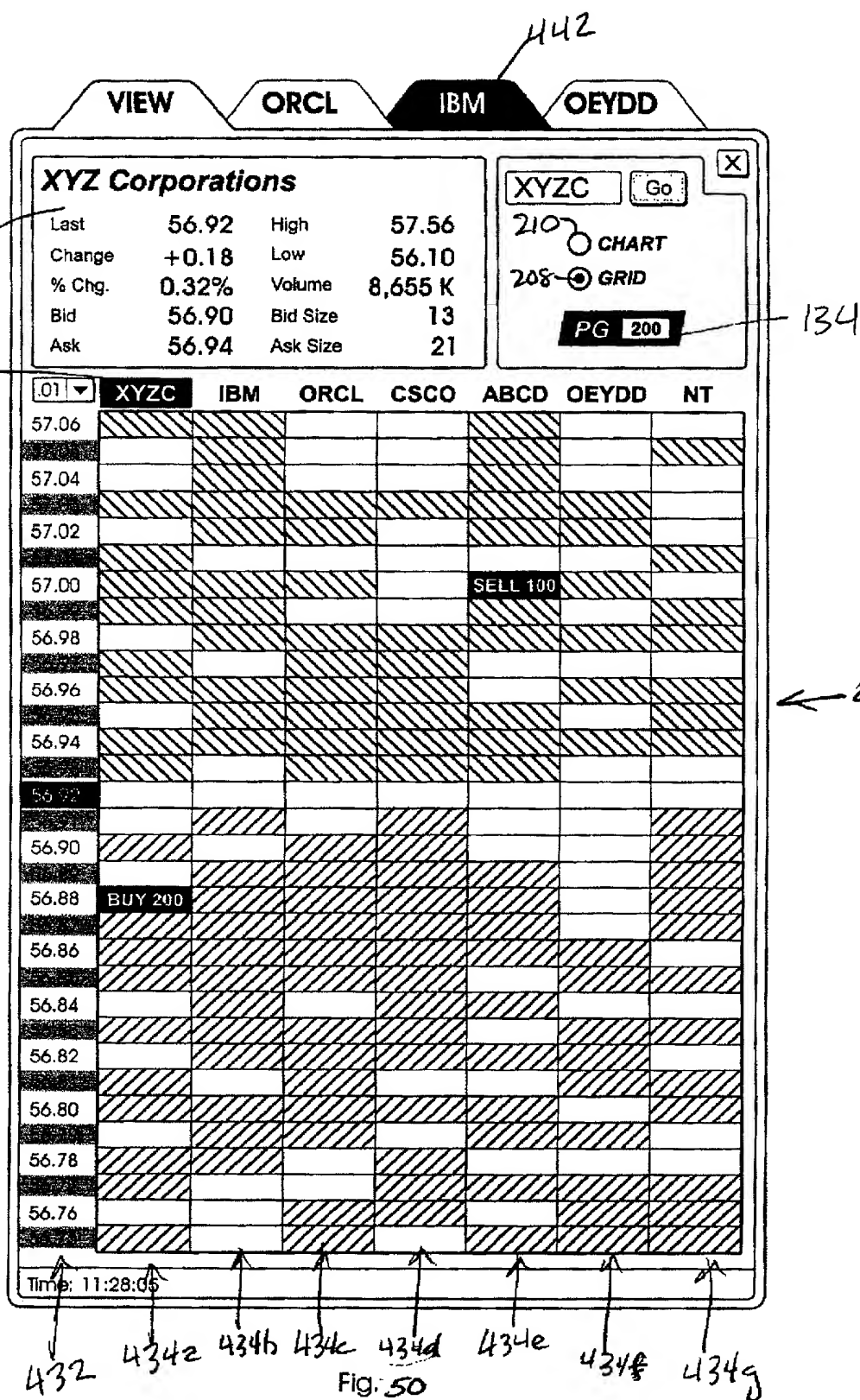
CANCEL ALL X
 CANCEL BUYS
 CANCEL SELLS
 ALL BUYS AT MKT
 ALL SELLS AT MKT

416
 418
 380
 386
 400
 402
 404
 406
 408
 134

Price	Order	Quantity	Order	Quantity	Order	Quantity	Order	Quantity
.70								
.60								
.50								
.40	MSFT	10						
.30	CSCO	20						
.20	IBM	18	MU	5				
.10	IBM	1	IBM	7				
ASK								
-.05	INTC	6	GLW	2				
-.15	NOK	1	ARBA	1	PMCS	6	C	8
-.25	GE	1	AMAT	8			IBM	1
-.35	PFE	22	EBAY	6				
-.45	MOI	8	AMD	4				
-.55	CPQ	80			SEB	2		
-.65	EMC	1	PALM	9				
-.75	ORCL	1						

Fig. 49

FIG. 50



QVIEW **ORCL** **IBM** **OEYDD**

Consolidated Quote View

X

Select Stock Group Dow 10,379.85 N/A 0.00%

TECHNOLOGY ▼ NASDAQ 2,163.41 +18.73 -0.85%

Select Axis Reference

PREVIOUS CLOSE ▼

134

.05 ▼
PREFERENCES

MSFT

Go

PG 200

.70	MSFT				
.60		DELL		BRCD	
.50	CSCO	ITWO			
.40	TN		JNPR		
.30	AOL	MU	CIN		
.20	JDSU		MRK	SBC	
.10		WCOM		SUNW	
00	LU				
-.10	GLW		INTC		
	NT	ERIC	PMCS		
-.20	NOK		G	AMCC	
	ARBA		GE	EAY	AMAT
-.30	MOT	AMD	IBM		
-.40		SEAL		PFE	
-.50	EMC	PALM	BUY IBM	CPQ	
-.60					
-.70	ORCL				
-.80					

460

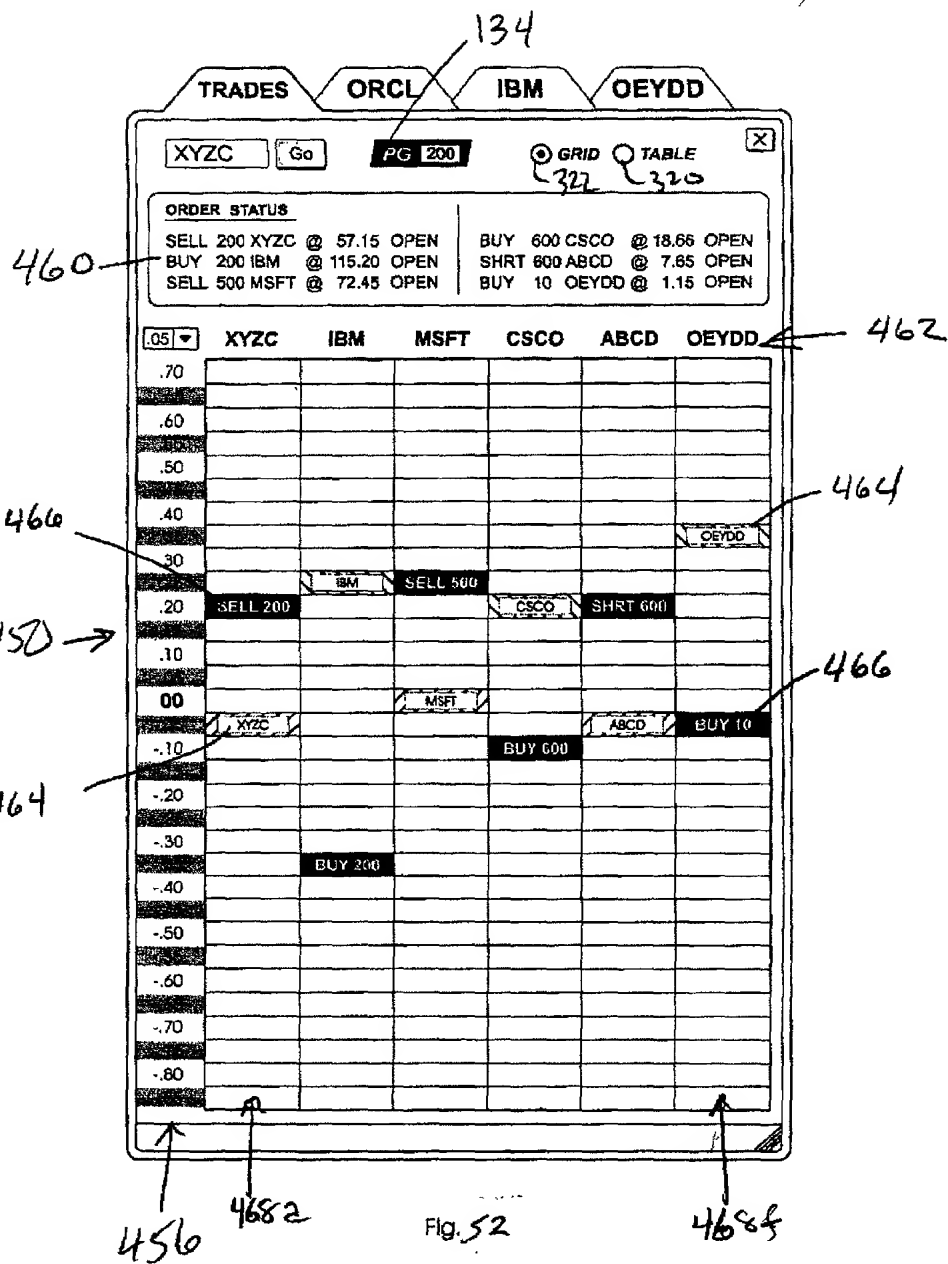
462

↑

Fig. 51

456

FIG. 52



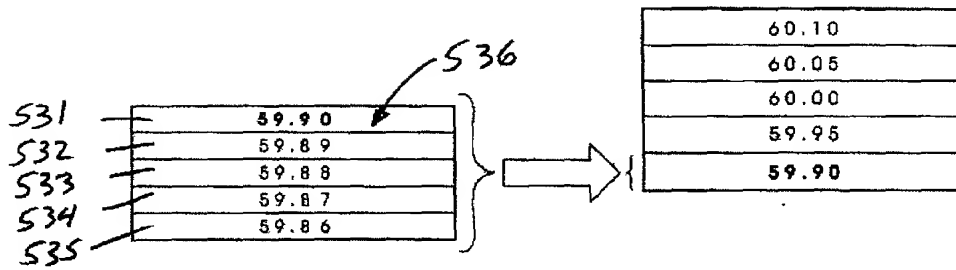


Fig. 53 a

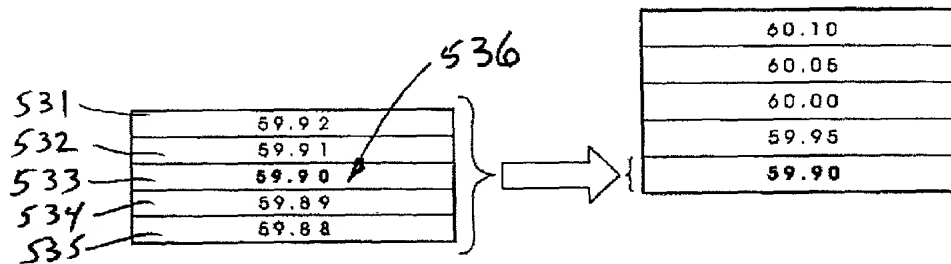


Fig. 53 b

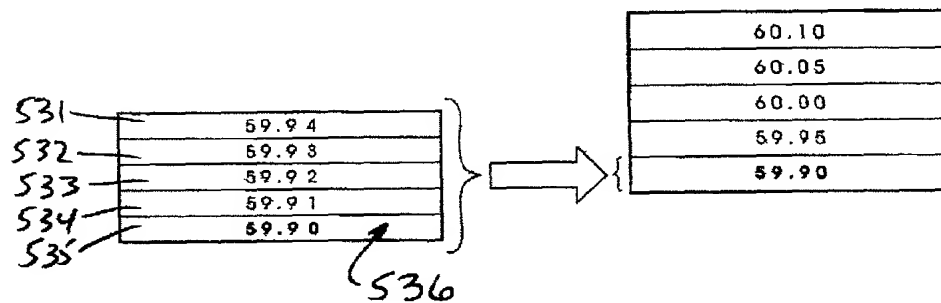


Fig. 53 c

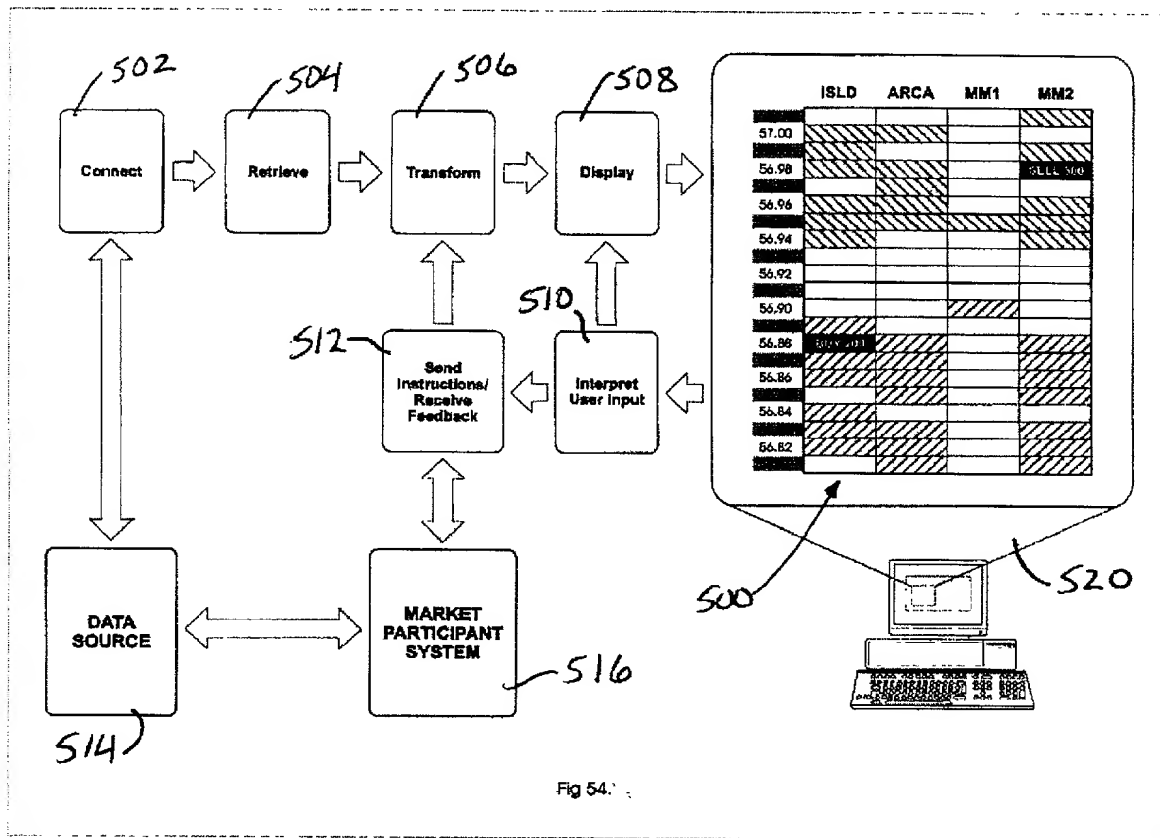


FIG. 55

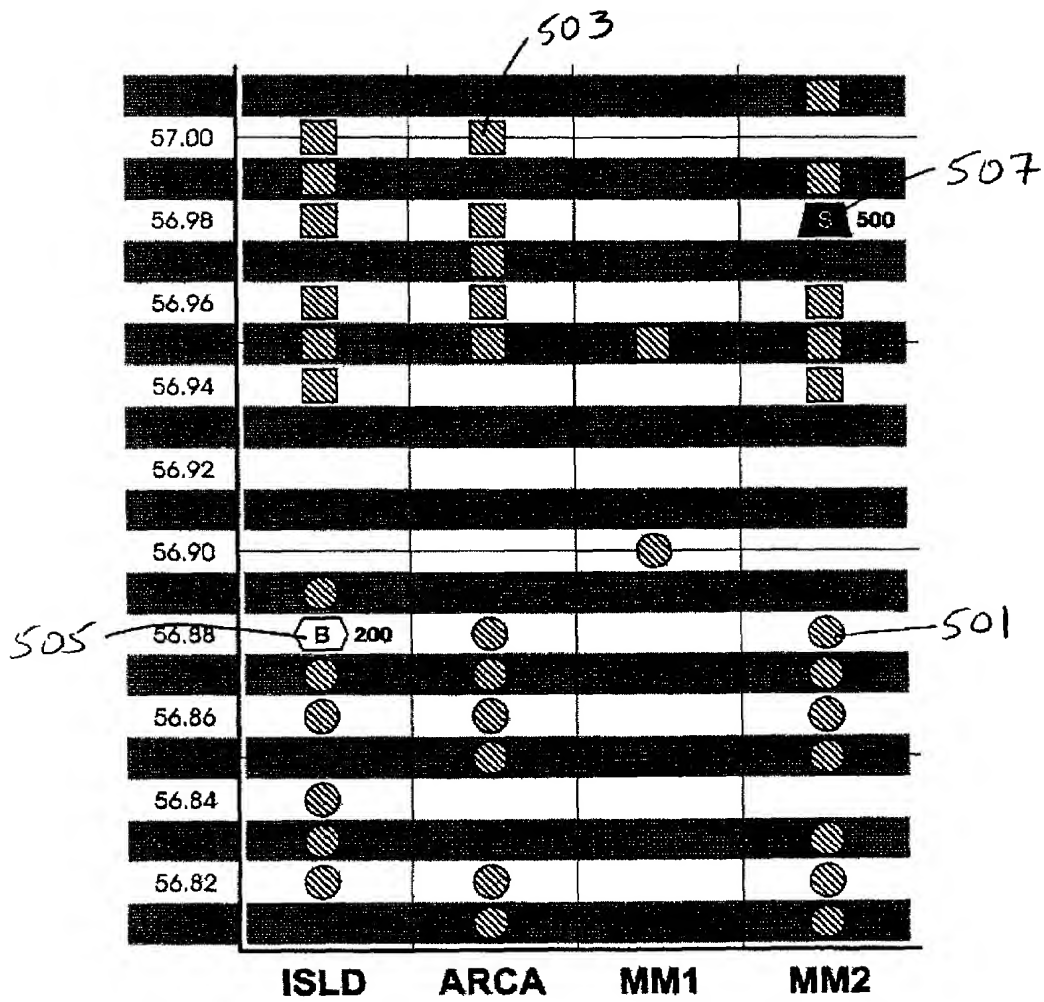


Fig 55